



NuRAN Granted 5G Canadian Patent- A Disruptive Technology to Enhance Mobile Broadband and User Experience

Quebec, QC, Canada, April 12th, 2018 – NuRAN Wireless Inc. (CSE: NUR) (OTC: NRRWF) ([FRANKFURT: 1RN](#)) is pleased to announce that it has been granted a Canadian Patent on its proprietary 5G Massive MIMO technology. A US patent has been already been filed and is currently pending.

The NuRAN 5G Massive MIMO Canadian patent was awarded for its efficient and low complexity precoding/detection algorithm to enable an efficient implementation of massive MIMO technology. The algorithm has been implemented and demonstrated in NURAN's Massive MIMO testbed, namely Titan-MIMO, to showcase its performance against other techniques. NuRAN's technology affords the system to enjoy no performance degradation at considerably lower implementation complexity.

“Novel technology in wireless is the cornerstone of our business and having intellectual property in the emerging area of 5G with our Massive MIMO testbed is another way that we are building value for our shareholders while remaining on the cutting edge of the next generation wireless networks. Based on the favorable and positive international examination report outcomes, NURAN Wireless has taken the necessary steps to proceed with a national patent applications in the US.”, states Martin Bedard, CEO of Nuran Wireless Inc.

The fifth generation (5G) wireless access networks are being defined to address new use cases and applications while meeting the continuing growth in demand for capacity. To offer enhanced mobile broadband (eMBB) services, 5G New Radio (NR) envisages a per user peak data rates which represent roughly 100X improvement over 4G networks. 5G enables new use cases such as massive internet of things, low power, low latency and highly reliable communications and eMBB access to name a few. These use cases pose very stringent constraints on the system design in terms of spectral and energy efficiencies, latency and reliability.

Massive MIMO has already been recognized as a core technology for 5G. It promises a substantial improvement in the cell edge performance (improved user experience due to high array gain) and the average cell area throughput (due to spatial multiplexing). Combined with the newly proposed 5G NR waveform numerology and flexible frame structure, the array gain can be used to enable low power device operation (e.g. massive low power IoT) and/or to achieve ultra-reliable (and low latency) communication.

NuRAN has always differentiated itself as a leader in cutting edge energy-efficient radio network access design and manufacturing. Nuran Wireless began looking at the various 5G disruptive technologies as far back as 2013. In October 2017, NuRAN hosted a 5G symposium in Quebec City where a number of these technologies were demonstrated.

Participants at the NuRAN 5G Symposium included [Xilinx](#), Videotron, [Analog Devices](#), The Mathworks as well as research institutes and universities to name a few.

About NuRAN Wireless

NuRAN Wireless is a leading supplier of mobile and broadband wireless infrastructure solutions. Its innovative radio access network (RAN), core network, and backhaul products dramatically drop the total cost of ownership, thereby creating new opportunities for established, as well as emerging mobile network operators. Indoor coverage, isolated rural communities, offshore platforms and ships, NuRAN Wireless helps its customers reach everyone, everywhere.

Nutaq Innovations is a wholly owned subsidiary of NuRAN Wireless. Nutaq is a leading provider of advanced digital signal processing (“DSP”) solutions and wireless technologies, including software defined radios (“SDR”). The Company operates three complementary lines of business; Wireless Network Products, Advanced Development Platforms (“ADP”) and Engineering Services.

For further information about NuRAN Wireless or Nutaq Innovations;

www.nuranwireless.com or www.nutaq.com

Martin Bédard
President and CEO

Tel: (418) 914-7484 Fax: (418) 914-9477
Toll Free: 1-855-914-7484 Email: info@nuranwireless.com ; info@nutaq.com

Direct Financial Strategies and Communication
Frank Candido
Tel: (514) 969-5530 Email: frank.candido@nuranwireless.com

No regulatory authority has approved or disapproved the information contained in this news release.

Forward Looking Statements

This press release contains forward-looking statements. Often, but not always, forward-looking statements can be identified by the use of words such as “plans”, “expects” or “does not expect”, “is expected”, “estimates”, “intends”,

“anticipates” or “does not anticipate”, or “believes”, or variations of such words and phrases or state that certain actions, events or results “may”, “could”, “would”, “might” or “will” be taken, occur or be achieved. Forward-looking statements involve known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of NuRAN Wireless to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. Examples of such statements include: the Company’s quest to connect the next billion; that this strategic acquisition allows Nuran to offer a complete mobile and broadband solution and the ability to secure the Nuran solution as the leader in rural and remote mobile connectivity, that the acquisition reinforces NuRAN’s strategic positioning towards new and small operators by offering an end-to-end mobile small-cell network solution with the lowest Total-Cost-of-Ownership (TCO) on the market and that the acquisition will allow NuRAN the opportunity to bring cellular coverage to emerging market where the return on investment (ROI) was previously simply too low. Actual results and developments are likely to differ, and may differ materially, from those expressed or implied by the forward-looking statements contained in this press release. Such forward-looking statements are based on a number of assumptions which may prove to be incorrect, including, but not limited to: the ability of NurRAN Wireless to obtain necessary financing; general economic conditions in Canada and globally; competition for, among other things, capital and skilled personnel; our ability to hire and retain qualified employees and key management personnel; possibility that government policies or laws may change; possible disruptive effects of organizational or personnel changes; technological change, new products and standards; risks related to acquisitions and international expansion; reliance on large customers; reliance on a limited number of suppliers; risks related to the Company’s competition; failure to integrate the technology and assets acquired from the Vendors and the Company’s failure to adequately protect its intellectual property; interruption or failure of information technology systems and other risk factors described in the Company’s reports filed on SEDAR), including its financial statements for the year ended October 31, 2015, and those referred to under the heading “Risk Factors”. These forward-looking statements should not be relied upon as representing NuRAN Wireless’ views as of any date subsequent to the date of this press release.