



NuRAN Granted United States Patent for its Proprietary 5G Massive MIMO Technology

Quebec, QC, Canada, January 8th, 2019 – NuRAN Wireless Inc. ([CSE: NUR](#)) ([OTC: NRRWF](#)) ([FSE: 1RN](#)) is pleased to announce that it has been granted a US Patent on its proprietary 5G Massive MIMO technology. US Patent and Trademark Office (“USPTO”) has issued a Notice of Allowance for NuRAN’s patent application on December 2018. The Canadian patent announced on April 12th, 2018 had already been granted.

Martin Bedard, CEO and President of NuRAN Wireless explained: “This patent further demonstrates our commitment to being at the cutting edge of the next generation wireless networks.” Mr. Bedard continued: “Our innovation places NuRAN in a strategic position to address not only today’s market needs but tomorrow’s as well. Current industry budget estimates for 2021* forecast over US\$2.3 billion on 5G mobile infrastructure. NuRAN’s growing IP portfolio is a crucial part of our value proposition as we are well positioned to take advantage of this important market opportunity”.

The NuRAN 5G Massive MIMO Patent was awarded by the USPTO for its efficient and low complexity precoding/detection algorithm that enables an efficient implementation of Massive MIMO technology. The algorithm has been implemented and demonstrated in NURAN’s 5G Massive MIMO testbed to showcase its performance against other technologies. NuRAN’s technology allows the system to run without any performance degradation at a considerably lower implementation complexity.

Massive MIMO is a technology that uses multiple number of antennas, thus the name MIMO for Multiple-Input Multiple-Output. MIMO Network transmit data between numerous devices simultaneously on a same radio channel. It is recognized as a cornerstone component of 5G as the networks using this technology multiply the capacity of a wireless connection without requiring more spectrum. This result in improved coverage which is more resistant to interference. These achievements are essential to meeting the 5G requirements such as low latency, high reliability and higher peak data rate.

NuRAN Wireless has been an early player in the 5G arena as it started working on 5G disruptive technologies as far back as 2013. The Company is still amongst leaders in this technology as demonstrated by its 5G Massive MIMO Symposium that was presented in Quebec City in 2017. Numerous technologies related to Massive MIMO were presented to an audience that included, amongst others, Xilinx, Videotron, Analog Devices, The Mathworks, research institutes and universities.

*Based on Statista’s 5G - 5th Generation Mobile Networks report (<https://www.statista.com/topics/3447/5g/>)

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

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.

For further information about NuRAN Wireless;

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Forward Looking Statements

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