

Wirepas unveils General Availability of Wirepas 5G Mesh, the first connectivity software based on new non-cellular 5G standard NR+, brings ultra-reliability to large-scale private networks at an affordable cost

Tampere, Finland, 21 February 2024 - Wirepas, a wireless connectivity company offering advanced mesh technology for large-scale industrial networks, announces the general availability (GA) of Wirepas 5G Mesh connectivity software. Wirepas 5G Mesh emerges as the industry pioneer, being the first product on the market to leverage the revolutionary, non-cellular 5G standard, NR+. It offers exceptional performance and ultra-reliability at a cost affordable to any company.

“The industrial world has been waiting for a way to connect thousands and even millions of devices in a way that is ultra-reliable yet affordable. Great IoT has been a luxury of few. We are on a mission to bring cutting-edge connectivity to everyone: first by giving away our technology to the new NR+ standard designed for massive IoT needs and now by bringing in the first product based on it. Together with our amazing partners we know this is a turning point for industrial IoT,” says Teppo Hemiä, CEO of Wirepas.

Wirepas 5G Mesh is designed to provide top-notch, affordable connectivity for companies seeking massive scale and ultra-reliable industrial networks in industries such as smart electricity metering and smart building. It outperforms cellular in coverage, cost, reliability, power consumption, privacy and IPR simplicity. This is the result of close to zero infrastructure needed and the network having the ability to self-heal and work autonomously, even in very dense environments.

“We realize it sounds almost too good, but we know it works. With our current product Wirepas Mesh we are already empowering the world’s biggest mesh network of more than a million smart meters in a single network, with an SLA of 99,9%. Wirepas 5G Mesh starts a new era: for example, compared to sub-GHz radios in metering, we double the range and bring ten- to hundredfold the throughput along with shorter latencies and higher densities. The ultra-reliability of 5G Mesh is built for replacing wires in buildings and enabling autonomous smart grid operations with the massive introduction of renewable energy. With its global dedicated license-exempt spectrum of 1.9GHz, virtually everything can be connected without a concern of capacity. 5G Mesh helps in driving more sustainable world,” Hemiä adds.

In parallel, Wirepas’ close partner Nordic Semiconductor has developed new low power SiPs for NR+ products such as Wirepas 5G Mesh. The nRF9131 and nRF9161 offer lower integration and bill of materials compared to other chips with an exceptional performance and functionality.

The new standard has garnered widespread interest and endorsement from industry leaders. Companies such as Maersk, EDF, FCL Components, Mecomo and Lacroix have embraced the potential of NR+: “The NR+ standard has a unique potential for large scale IoT deployments in industrial, buildings/campuses and parts of the global logistics domains and it is delightful to see the first real implementation of the standard by Wirepas - looking forward to see companies globally adopting and deploying the NR+ technology,” said Find Bengtsson, Lead Technology Manager at Maersk.

Vincent Audebert, 5G & IoT for utilities in EDF Lab commented: “We are excited about the potential of the NR+ standard to connect objects in the smart grid world, and we’re delighted that Wirepas is making this happen with their first release. We look forward to the first customer deployments with the NR+ technology.”

On their side, the Connectivity Standards Alliance creating, evolving and managing IoT technology standards, has also voiced their interest for the new standard: “Mesh networking standards for smart home IoT have been table stakes for performance and customer experience,” said Chris LaPre, Head of Technology at the Connectivity Standards Alliance. “We commend Wirepas for their contributions to standards like NR+, supporting mesh use cases for massive IoT deployments in industrial, buildings, campuses and global logistics. We are excited to see this new, modern mesh, with improved scalability and reduced power-draw of the mesh, come to life with Wirepas’ GA and launch.”

In addition, other giants, such as Nordic Semiconductor, Sennheiser, Renesas, Panasonic, HP, Cisco and Legrand, are members of DECT Forum, the association of the wireless home and enterprise communication, promoting NR+.

Experience Wirepas 5G Mesh demonstrations live at Mobile World Congress (MWC) 26-29 February in Barcelona, Spain and Distributech 27-29 February in Orlando, US.

About Wirepas

Wirepas is a leading IoT company with a mission to democratize enterprise IoT. It aims to make failure-free connectivity accessible to any enterprise of any size. It makes IoT real through its connectivity software enabling massive decentralized, scalable, high-density, and long-range network applications. Its technology lets any enterprise set up and manage its own network autonomously without operators, separate network infrastructure or subscriptions - at a fraction of the cost of other alternatives. Wirepas is also the main contributor to the first non-cellular 5G standard, purpose-built for massive IoT and using a free global spectrum. It serves customers across the world with offices in Australia, Germany, Finland, France, India and the United States, in the areas of smart tracking, smart building, smart manufacturing and smart metering. Learn more on wirepas.com.

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