



Movandi and NXP Collaborate on 5G

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Partnership to deliver performance-optimized solutions to connect 5G everywhere

BARCELONA, February 20, 2019 – Mobile World Congress 2019 –NXP Semiconductors N.V. and Movandi, a privately held company with a mission to revolutionize 5G everywhere, today announced that they have formed a joint partnership to collaborate on millimeter wave (mmWave) solutions for 5G networks. The partnership will combine NXP's digital networking and signal processing portfolio with Movandi's innovative RF transceiver and systems architecture to deliver high-performance 5G solutions and the wireless communications infrastructure for applications such as smart homes, self-driving cars and future mobile cloud-based services.

5G is set for rapid deployment, but in order to truly achieve the requirements of very low latency, high bandwidth, greater availability, faster speeds, and consistent coverage, it must overcome challenges such as line of site and blocking, high path loss and self-install issues. The technology must also deliver reduced lag time between devices and cell towers while ensuring constant connectivity and total geographic coverage, even in the most remote, hard-to-reach indoor areas.

To meet these challenges a new approach to millimeter wave systems design is required. NXP and Movandi are working to solve these impediments with high-speed communication solutions which combine each company's expertise and technology.

"The growing partnership with Movandi brings NXP new opportunities," said Tareq Bustami, senior vice president, Digital Networking, NXP. "Movandi's disruptive solutions for 5G applications address the growing challenges of deploying 5G millimeter wave networks and interface well with NXP's advanced 5G modem technology. Our partnership will impact nearly every sector of innovation, bringing to life the promise of connected-driven experiences through edge computing, autonomous driving, AI, 5G and beyond."

NXP will contribute products from the Layerscape family of high-performance Arm®-based communications processing platforms and programmable baseband processing. Layerscape SoCs possess a common hardware and software architecture and are scalable in performance, power and cost. Hardware differentiation is provided by programmable acceleration and offloaded security. On the software side, NXP provides solution-level packages for specific applications including wireless, cloud, security and virtualization.

"NXP's systems experience gained over multiple generations of wireless networks and its portfolio of digital processing technologies now combined with Movandi's innovative integrated RF front end, from baseband to millimeter wave, enables the next generation of 5G and multi-gigabit connectivity that is driving new markets and applications," said Maryam Rofougaran, Co-CEO of Movandi. "Our technology partnership has allowed us to develop our BeamXR system that we are introducing this week. "This and other new solutions are expected to deliver a high level of performance and flexibility to help ensure that 5G technology can be broadly and successfully deployed in the real world."

Movandi will bring its world-class radio frequency (RF) design, beamforming capabilities, and high-receive sensitivity for 5G to the partnership. Movandi provides high levels of performance while maintaining a great deal of modularity and flexibility to help ensure that 5G and mmWave technology can be implemented across numerous use cases and deployment scenarios.

Together the partners aim to enable wireless service providers with solutions that optimize internet speeds and provide a superior connected experience while overcoming the common delivery barriers that can deteriorate 5G signals. Demonstrations incorporating technologies from Movandi and NXP are on display during Mobile World Congress, 25-28 February. Please use the contacts below for more information.

About NXP Semiconductors

NXP Semiconductors N.V. (NASDAQ: NXPI) enables secure connections and infrastructure for a smarter world, advancing solutions that make lives easier, better, and safer. As the world leader in secure connectivity solutions for embedded applications, NXP is driving innovation in the secure connected vehicle, end-to-end security & privacy, and smart connected solutions markets. Built on more than 60 years of combined experience and expertise, the company has approximately 30,000 employees in more than 30 countries and posted revenue of \$9.41 billion in 2018. Find out more at www.nxp.com.

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