



Press Release
Paris, 29 June 2021

Orange and Nokia deploy the first Industry 4.0 4G/5G private network with network slicing in French factory

- First 4G/5G end-to-end private network supporting network slicing in a Schneider Electric factory in France through Orange co-innovation partnership
- Underpinned by Nokia's 5G Standalone/Non Standalone and LTE slicing network equipment with management, orchestration and assurance capabilities

Paris, France and Espoo, Finland – Orange and Nokia today announced the deployment of a 4G/5G private network combined with network slicing at Schneider Electric's plant in Le Vaudreuil, France. Network slicing is a key feature for the management of end-to-end 4G/5G quality-of-service and security of industrial processes, operations and applications in Industry 4.0.

Nokia has been selected by Orange to build a sliced 4G/5G private network for a modern industrial environment, providing reliable, scalable and sustainable connectivity solutions for industrial use cases.

Nokia's slicing solution supports existing LTE, 5G Standalone (5G SA) and 5G Non Standalone (5G NSA) devices and also includes domain controller software in RAN, core and transport layers to enable full slice connectivity. The slice continuity between LTE and 5G NR allows Orange and Schneider Electric to operate a state-of-the-art indoor network in an industrial setting. With this solution, both partners continue to implement and test the management of the different priorities, performance, and security capabilities adapted to their innovative use cases, while optimizing network resources.

As a global network-native digital services company with dual expertise of both an operator and end-to-end integrator, Orange Business Services offers its industrial customers a complete portfolio: Mobile Private Networks (MPN) built on private infrastructures, virtual MPNs on the public network and hybrid MPNs combining private and public infrastructures. The choice of architecture is made to best meet the security, performance and resiliency requirements of the business customers' use cases both on and off the industrial campuses, as well as to optimize costs.

Arnaud Vamparys, Senior Vice President Radio Networks at Orange Innovation and 5G Champion, said: "Thanks to Nokia's advanced slicing technology, Orange is able to further explore with Schneider Electric the power of scalable private 4G/5G connectivity applied to industrial uses."

Tommi Uitto, President of Mobile Networks at Nokia, said: “With Nokia’s network slicing solution, Communication Service Providers and Enterprises can enjoy first to market advantage through the early launch of new slicing services, for all end-users equipped with 4G or 5G devices. As a long time innovation partner, Nokia is delighted to achieve this first with Orange in an industrial manufacturing environment.”

Resources:

- Webpage: [Nokia Network Slicing](#)
- Webpage: [Nokia Digital Operations Center](#)
- Press release: [Nokia offers world’s first automated 4G/5G network slicing within RAN, transport and core domains](#)
- Press release: [Nokia and Mobily pilot world’s first 4G and 5G Fixed Wireless Access network slicing](#)

About Orange

Orange is one of the world’s leading telecommunications carriers with a turnover of €42.3 billion in 2020 and 140,000 employees as at March 31, 2021, of whom 80,000 are in France. The Group has a total customer base of 262 million customers worldwide at March 31, 2021, including 217 million mobile customers and 22 million fixed broadband customers. The Group is present in 26 countries. Orange is also a leading provider of global IT and telecommunication services to multinational companies, under the brand Orange Business Services. In December 2019, the Group presented its new ‘Engage 2025’ strategic plan, which, guided by social and environmental accountability, aims to reinvent its operator model. While accelerating in growth areas and placing data and AI at the heart of its innovation model, the Group will be an attractive and responsible employer, adapted to emerging professions.

Orange is listed on Euronext Paris (symbol ORA) and on the New York Stock Exchange (symbol ORAN).

To find out more (online and via your mobile device), go to: www.orange.com, www.orange-business.com or to follow us on Twitter: [@orangegrouppr](https://twitter.com/orangegrouppr).

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About Nokia

We create technology that helps the world act together.

As a trusted partner for critical networks, we are committed to innovation and technology leadership across mobile, fixed and cloud networks. We create value with intellectual property and long-term research, led by the award-winning Nokia Bell Labs.

Adhering to the highest standards of integrity and security, we help build the capabilities needed for a more productive, sustainable and inclusive world.

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