FUJITSU

E5G

Solution outline

What is the challenge?

As the number of connected IoT devices and sensors continues to increase exponentially, so too does the volume of data they generate. Organisations seeking to take their digital transformation (DX) to the next level must make sense of this data, while securely managing device connectivity in order to generate meaningful, insightful information that can generate a competitive edge.

While these DX initiatives have been gaining momentum, expectations have also continued to grow for a next-generation network infrastructure that can achieve ultra-high speed, high capacity, and ultra-low latency communications. But existing network functionality – and its associated security – is struggling to keep pace with such aspirations.

Describe the solution – how is the challenge solved?

Fujitsu's Enterprise 5G solution (E5G) enables companies to flexibly build and operate their own private 5G network, and in doing so accelerate their digital transformation. Providing the capability to connect unlimited IoT devices, linking people with their data, Fujitsu's E5G can be fully integrated with existing enterprise networks to:

• **Streamline workflows, enhance productivity and efficiency**
• **Improve situational awareness with data visibility and insight**
• **Improve organisational competitiveness.**

5G technology is extremely complex, so Fujitsu manages the entire infrastructure as a fully-managed service built to the specific needs of the customer:

• **Independently used in areas where telecommunication providers have not constructed public 5G service (especially beneficial where public roll-out has been slow)**
• **Delivers the freedom to offer high speed services to your customers**
• **Includes data management, and customised app and software development**
• **Highly secure network, including secure protection of all connected devices.**

What are the benefits and outcomes?
(Either business or societal, or both)

5G is a low energy consumption solution that can also accommodate the massive data transfer requirements of modern businesses and public bodies, such as healthcare. As a result, 5G has emerged as an important accelerator of sustainable digital transformation. Private 5G networks will enable businesses to roll out hundreds or even thousands of sensors, actuators, autonomous machines, drones, high-resolution cameras and so on. Securely connecting these devices and the data they generate will deliver unparalleled business insight, and enable models to predict future outcomes.

Why is Fujitsu well-placed to deliver this?

Fujitsu began offering a comprehensive service to support customers' use of private 5G in Japan in 2020, optimising digital transformation initiatives by combining its industry expertise, network technology and collaboration with the various partners in the industry. Today, there are two active use cases within the manufacturing sector in Spain.

Fujitsu's showcase will reveal how these technologies will underpin innovation going forward and represent a vital tool for companies to remain competitive and sustainable into the future.

What is the WOW factor?

E5G has emerged as an important accelerator of sustainable digital transformation due to the green credentials of the technology used – much lower energy consumption than current technology. Fujitsu is in a unique position to deliver private 5G networks in the role of systems integrator. Working with three specialist partners, Fujitsu can deploy and manage the entire system, including all connected devices and sensors on behalf of customers.

Who does this apply to?

Private 5G has a variety of applications across any vertical, but for now just three industries are the focus:

- Manufacturing / Logistics
- Healthcare
- Defence.

How might this evolve to other sectors?

Changes in the telecoms sector that removed major roadblocks as well as technological advances suggests demand for private 5G networks could grow exponentially in 2023, making this a potentially massive opportunity.

Further information on this can be found here:
https://www.fujitsu.com/global/imagesgig5/Predictions_2023_Networks_5G.pdf

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