

Supercharge your digital transformation

For global businesses, the rapid growth in volume of data and number of connected devices means enhanced connectivity is redefining what's possible. Private networks enable every device, sensor, machine and system to connect and share more data across a dedicated, ultra-reliable, ultra-low latency ecosystem. The advent of 5G for private networks brings an era of new, connected industry experiences – devices and sensors sharing greater amounts of information seamlessly with each other and industrial machinery being controlled remotely.

Organisations driving towards 'digital industry' want a future full of technologies like augmented and virtual reality, machine learning and artificial intelligence, robotics and automation, and the internet of things (IoT).

A 5G private network is the essential foundation and enabler for all these innovations. A successful deployment means connecting that solution ecosystem into the broader business, reaching across your IT and OT environments, your edge computing, cloud, compute capability and security defences.

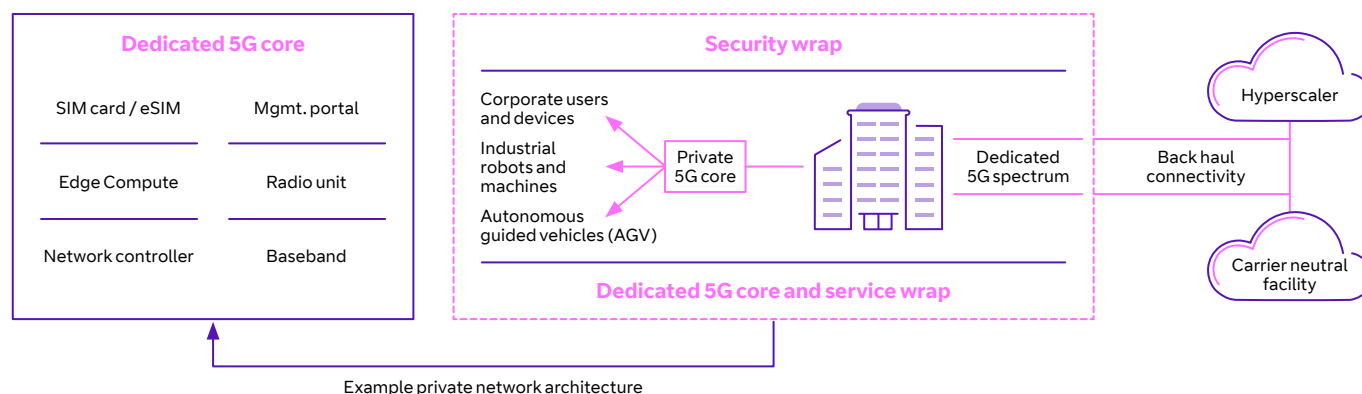
Imagine having your own private motorway – but instead a dedicated data highway free of other traffic, exclusive to you. You can control the capacity, speed and flow of data along the highway, in a way that suits your business needs. This is a 5G private network.

A core component of a cohesive digital industries solution

With a 5G private network you get:

- a totally 'private' network that's managed alongside your wider connectivity estate
- a dedicated 5G core using private 5G spectrum
- an ultra-reliable, ultra-low latency network to use as you see fit
- our 5G expertise to ensure the deployment meets your requirements
- seamless integration with your wider business infrastructure
- dedicated 5G hardware and infrastructure through our core 5G partners
- service and security wrap.

How it works – 5G Private Network architecture



A game changer for mission critical systems

5G's reliability and consistency provides the confidence for your organisation to achieve transformational and operational benefits.

By their nature, mission critical systems need to be always on and always ready. If they're not, you could face operational disruption, financial loss and even worse, risk to human health, damage to valuable equipment and environmental harm.

No one needs technology that freezes or crashes at the wrong moment – whether it's in the middle of a surgical operation or right at the end of an important system upgrade or data transfer.

Fortunately, 5G is the ideal next generation technology for underpinning mission-critical systems in four key ways:

1. **It's very low latency** – in fact, half the latency of private 4G and Long-Term Evolution (LTE).
2. **It has rock solid stability** – because it's all yours, unlike traditional wi-fi. It's also not affected by lots of metal in factory settings.
3. **It can manage very high bandwidth demands** – supporting the ability to analyse four to five times the amount of data 4G can handle, quickly and efficiently.
4. **It has high availability** – upgrading from 99.9% with 4G to 99.999%, which might seem fractional, but makes a significant difference over a longer period of time.

All of these features create a combined connectivity solution that enables you to have greater confidence that mission-critical systems will run smoothly and consistently.

Why work with us?

An innovation and partner ecosystem is at the heart of our 5G strategy

At the heart of our 5G private networks strategy is a broad ecosystem of partnerships that foster innovation and enable us to develop our extensive portfolio, across networking, cloud, compute and security.

Co-creating with our customers

As a leader in the 5G space, we've developed the innovative solutions and partner ecosystem that's essential in making 5G private networks an effective investment, whilst co-creating with our customers to ensure the deployment is the right fit, end-to-end.

End-to-end capabilities

5G isn't just about better speed and mobile coverage. It completely changes how we think about enterprise data networks, cloud, collaboration, edge and security solutions. Working with BT means you have a partner with the end-to-end capabilities, to bring together the right 5G private network solution cohesively, based on business needs, not just technology type.

What could our 5G Private Network do for you? Visit bt.com/global

Offices worldwide

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