

Private 5G Network: Connect more than ever before.

Solution brief

Transformative on-premises private wireless network for business-critical connectivity

Selecting a network that can handle digital acceleration: That's Enterprise Intelligence.

Businesses today face exponential digital acceleration. Artificial intelligence and machine learning. Real-time analytics. Virtual and augmented reality. The Internet of Things (IoT). Immersive experiences. Mobile edge computing (MEC). These and other datacentric emerging technologies will need a next-gen and scalable connectivity network.

Many industrial and operational facilities may be over-reliant on existing connectivity options like Wi-Fi that impose significant technical limits. Such options don't have dedicated capacity with adequate range and bandwidth inside and outside their facility. Organizations are often left with coverage gaps, lost connectivity, fractured security, data congestion, inflexible processes and inconsistent service quality that can lead to costly downtime and missed opportunities.

Businesses require a dynamic, secure networking platform that can help them overcome today's operational challenges, while laying the foundation for tomorrow's new technologies and emerging capabilities.

That's why Verizon is offering a dynamic all-in-one solution: Private 5G Network.

What is a Private 5G Network?

Private 5G Network is a secure, scalable, wireless network with the dynamic network attributes of the Verizon 5G network. It's customized for facility structures and operational requirements to provide consistent, predictable coverage and bandwidth for business-critical applications.

And it has the power to enable an emerging set of technologies and applications that can help you redefine and reimagine business.

For example, Associated British Ports (ABP) is using Private 5G Network to streamline operations and drive innovation at one of the U.K.'s busiest ports. The Port of Southampton sees £40 billion in U.K. exports each year. ABP will increase coverage and reliability by moving from public 4G connectivity, while simultaneously increasing reliability and security. This is Enterprise Intelligence.

How does a Private 5G Network work?

Verizon's private cellular network design brings a managed-service solution to operationalize facilities and leverage expertise to monitor and manage networks, so enterprises can focus on their core business. Facilities benefit from a dedicated network that offers predictive reliability and can contain operational data on-premises.

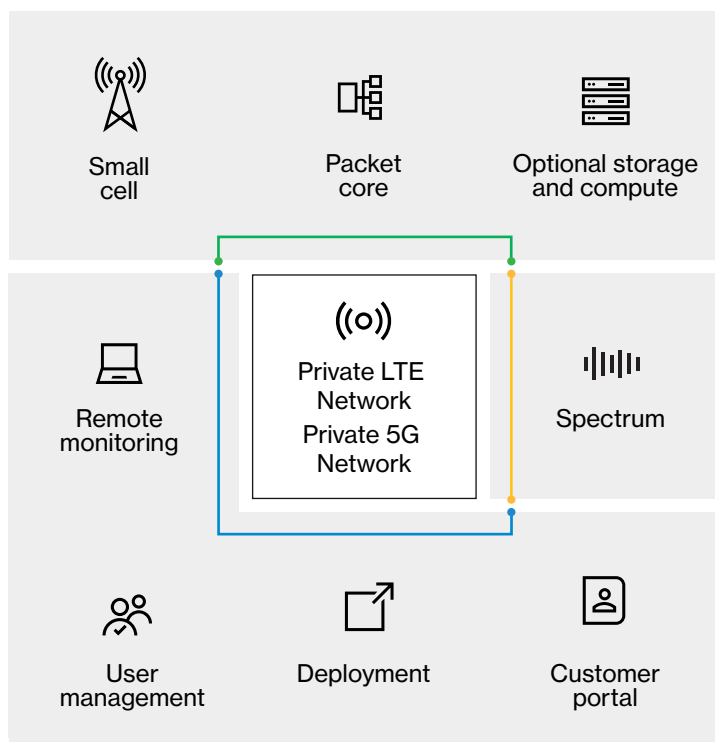
Massive amounts of operational data can be collected from any number of connected devices and sensors, then analyzed for timely insights with low latency with the powerful addition of private MEC.¹

Most comprehensive portfolio

Verizon's private LTE/5G portfolio has you covered:

- Smaller, quicker deployments
- Large, industrial, carrier-grade deployments
- Citizens Broadband Radio Service (CBRS) and licensed spectrum
- LTE and/or 5G (including device ecosystem)

Key components of Private 5G Network include spectrum options, optimal collection of small-cell radios, a packet core and a customer dashboard. Design, deployment and network management services are also included.



- = On-premises infrastructure
- = Spectrum
- = Professional and Managed Services

Designed to transform IT pain points into operational technology (OT) advantages

Private 5G Network is a customized solution offering the best of LTE and 5G, fully managed, monitored and maintained by Verizon. It can support thousands of connected devices, as well as different prioritization schemes for critical operations.

Key benefits:



Seamless mobility. Enables mobility by extending the network's operational range all over the campus



Reliable connectivity. Provides consistent, dedicated connectivity and performance on campus, with the option of authorized remote access



Security. Provides built-in security of LTE/5G networks, application/device management and seamless authorized user access, as well as 24/7 network monitoring and secure, authorization-based remote access to operational processes and applications



Agility. Scalable solutions for any size facility, any spectrum and quality of service (QoS) levels to match business requirements



Ease of use. Empowers customers to focus on running their business, not their network



Performance. Pervasive coverage from LTE, and high bandwidth and low latency of 5G Ultra Wideband for the most demanding applications

Enables a wide variety of industries and use cases

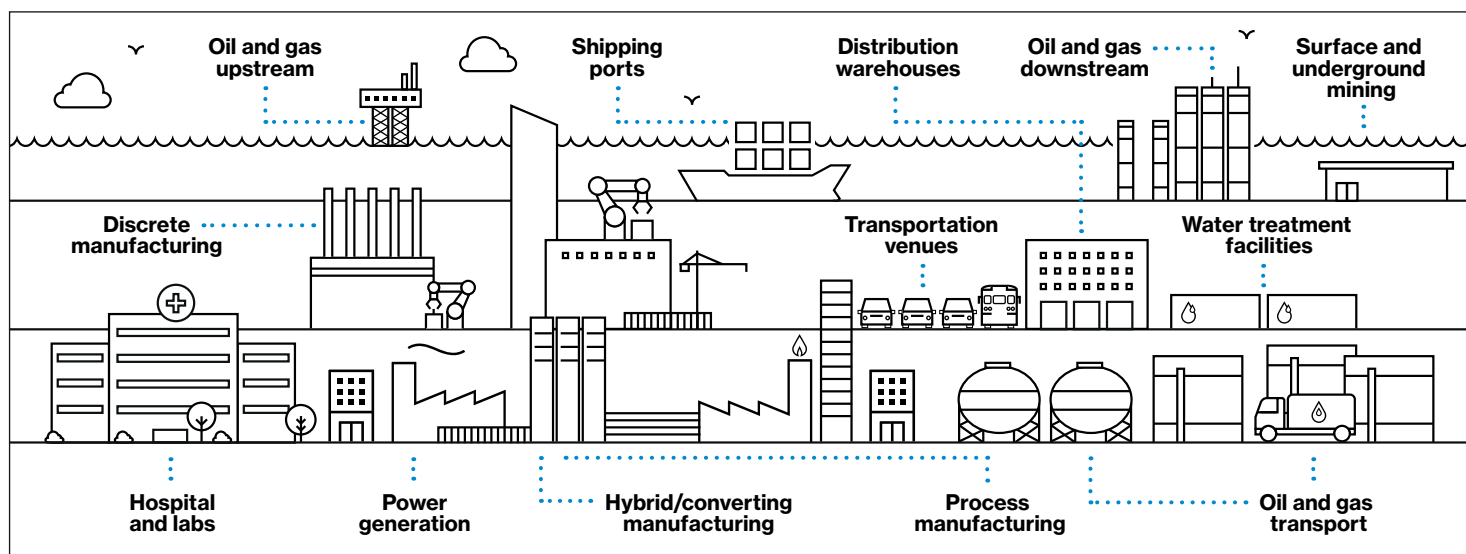
Private wireless networks give organizations their own dedicated wireless network for their operational needs, including businesses with various size facilities—from 50,000 square feet all the way up to large outdoor yards, campuses and remote sites.

Private 5G Network could benefit a variety of industries, including:

- Manufacturing
- Utilities
- Oil, gas and mining
- Transportation and distribution
- Healthcare
- Retail

Potential applications include:

- Smart buildings
- High-definition video inputs
- Near real-time data and analytics
- Automated guided vehicles
- Wireless robot and equipment control
- Drone-based site survey
- Business-critical team communications
- Connected supply chain management
- Just-in-time parts and work orders
- Predictive maintenance
- Site-specific visual training tools



Why Verizon

By partnering with Verizon, you'll work with a global networking and telecom leader. RootMetrics[®] has named Verizon America's most reliable 5G network.² Verizon is leading next-generation innovation with its Private Wireless Network, 5G Edge and related industry solutions.

Find out more:

Verizon can help you at every stage of your 5G journey: from deciding what connectivity is right for each site through architecture design and acquiring licenses to deployment and ongoing management. We can also help you deploy edge computing and storage as needed and manage the whole infrastructure. To learn more, visit [verizon.com/business/products/networks/connectivity/private-wireless-network](https://www.verizon.com/business/products/networks/connectivity/private-wireless-network)



¹ Provided separately

² Most reliable 5G network based on more first-place rankings in RootMetrics[®] 5G data reliability assessments of 125 metro markets conducted in 1H 2022. Tested with best commercially available smartphones on three national mobile networks across all available network types. Your experiences may vary. RootMetrics[®] rankings are not an endorsement of Verizon.

Private LTE Network is available within the U.S. Prequalification required.

Network details & coverage maps at [vzw.com](https://www.vzw.com). © 2022 Verizon. SB6651122