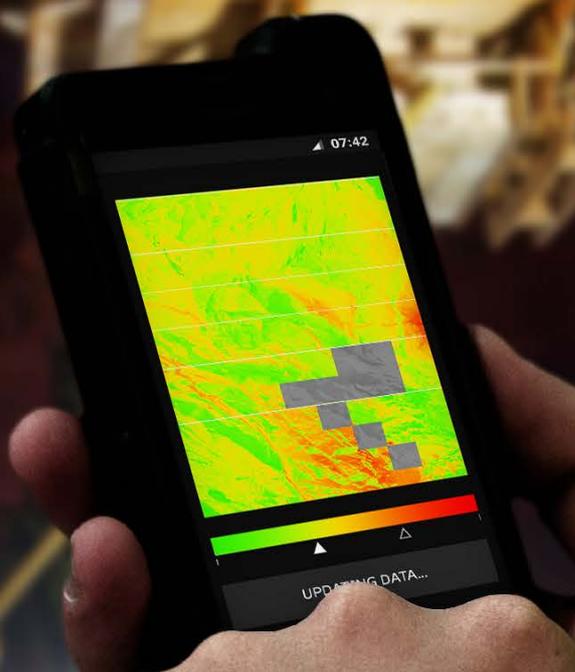




[ericsson.com/en/  
dedicated-networks](https://ericsson.com/en/dedicated-networks)

# Private Networks

Solution brief



# Guaranteed quality of service tailored for businesses

Private Networks is our customized private cellular connectivity solution, set up locally using dedicated radio equipment to serve premises with wireless networking connectivity.

A private cellular network is the perfect solution for any industrial facility requiring operational optimization through automation, control and insights from data analysis. It utilizes radio coverage to become independent of public mobile networks, ensuring it meets performance needs with cellular capacity that encompasses high device density and predictable latency. It is a pre-integrated solution designed for industrial facilities and campuses with complex operations and allows for the smooth transition to 5G.



Complex industry use cases require customizable solutions

## The main benefits of Private Networks

**Guaranteed coverage** is the most apparent benefit. It is assured in the enterprise's operations area, both indoors and outdoors as required, through a dedicated spectrum, even in remote locations, such as in mining or offshore oil rigs.

**Security and encryption** are vital and of the strongest standards since Private Networks are based on cellular technology. This offers high levels of security as 3GPP standards are closely adhered to across vendors, and the private nature of this solution ensures that all data stays on-premises.

**Ensured capacity** is an essential feature, as a private network removes any contention with other network users, making it possible to guarantee network performance, such as uplink and downlink bit rates and latency.

**Retained control** due to Private Networks enabling enterprises to determine and control how resources are utilized, and how traffic is prioritized, is a further advantage. The Radio Access Network can be customized to optimize reliability and latency, and security can be controlled to ensure that sensitive information remains on-premises.

**Critical reliability** is assured as private networks are based on LTE/5G technology, which offers performance and enables applications that cannot be accommodated by Wi-Fi, such as mission-critical communication services and ultra-high definition video surveillance.

**Predictable and ensured low latency** is another important feature. It is a requirement for many IoT applications that rely on timebound communications, where delays can result in a catastrophic failure, such as for critical control of remote devices like heavy machinery.

**High data speeds for communication** compared to narrowband Land Mobile Radio systems, which suffer from capacity restraints, are also offered. This is ideal for video and high-resolution imagery, desirable in many industry segments.

# Why choose Ericsson Private Networks solution?

Choosing Ericsson's Private Networks provides an organization with a trusted long-term partner that will continue to drive innovation within communication and connectivity.

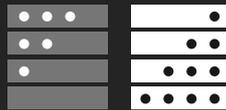
We support the entire connectivity journey when enterprises choose our Private Networks solution. Enterprises must invest in future-proof technologies, especially when it comes to connectivity, as technologies continue to evolve, enabling new application areas and ways of leveraging connectivity efficiently and creatively.

All Ericsson Radio System products are ready for 5G New Radio (NR) and are delivered through remote software installation to enable a fast and smooth migration and rapid coverage expansion of 5G services. This means that the owners of Private Networks can easily migrate their existing network to leverage 5G technology when it is commercially available.

Compared to other wireless technologies, LTE and 5G based on 3GPP standards provide substantially higher security and reliability. In addition, our wide range of applications and functionalities are easily integrated into the Private Networks solution, securing even higher reliability and resulting in real business-critical functionality. This functionality is of great importance when connectivity has a significant impact on an enterprise's business processes.

## Private Networks explained

Flexible deployments for private networks enabling business scalability



Network management portal



Network functions with small footprint to comply with enterprise needs

Radio	Core
O&M	PTT/VoLTE

Radio dot (LTE/NR)      Micro radio



Macro radio



Ensured capacity for industry and enterprise segments



- Simplifying networks through pre-integrated solutions
- LTE and 5G NSA, with a clear path to 5G SA
- Leverages on the Ericsson product portfolio
- Local control and survivability

Ericsson enables communications service providers to capture the full value of connectivity. The company's portfolio spans Networks, Digital Services, Managed Services, and Emerging Business and is designed to help our customers go digital, increase efficiency and find new revenue streams. Ericsson's investments in innovation have delivered the benefits of telephony and mobile broadband to billions of people around the world. The Ericsson stock is listed on Nasdaq Stockholm and on Nasdaq New York.

[www.ericsson.com](http://www.ericsson.com)