

Private Networks

Smarter, safer operations in energy, utilities and chemicals.



Private networks are fast becoming the foundation of today's digital and automation strategies. Targeting the exact coverage and capacity requirements of your sites, these built-for-purpose 4G/5G networks deliver the round the clock connectivity you need to transform operations, embrace smart insights and build for the future.



Industry analyst IDC estimates enterprises will invest approx. **\$5.7 billion in private networks by 2024**¹

The role of a private network

Accelerating efficiency

Assure continuity of business critical operations with always-on connectivity.

Reducing risk

Automate hazardous operations and increase site safety.

Driving the future

Enable 'smart' transformation through automation, AI and robotics.

Enabling digitalisation with private 4G/5G network solutions

Business-critical communications

Guaranteed, always-on connectivity across complex sites and infrastructure

Video analytics

Capture and AI processing of visual data to protect your site

Environmental and worker safety

Identifying potential harmful emissions and leakage

Group communications

Including push to talk and video

Remote Operations

Boosting operational efficiencies and removing people from hazardous areas

Mobile worker

Remote support through AR/VR

Data privacy and security

Access, manage and protect the ever-expanding volume of business-critical data

How private networks work

A dedicated, private 4G/5G wireless network with coverage and capacity tailored for location and use case.

- ✓ Purpose-built, private network
- ✓ High availability, resilient and secure
- ✓ Low latency, high-speed connectivity
- ✓ Full network control and management

Advantages over public wireless and WiFi options

- **Public Mobile Networks.** Limited capacity and coverage can mean not-spots, dropped calls and low data throughput.
- **Conventional WiFi.** At-scale WiFi deployments require extensive physical infrastructure, are less secure, and can be impacted by interference or contention problems.

Benefits of a dedicated private network

- 24x7x365 continuity** of business critical operations and communications
- Seamless mobility** and connection of static and moving assets across the full site
- OPEX savings** by proactively monitoring equipment to reduce maintenance
- Boosting productivity** through smarter, more automated processes and operations
- Enhancing safety** by removing staff from hazardous environments
- Data privacy** by keeping data on site and restricting outside access
- Assured security** for private network owners and users

A fully managed service from Cellnex

Performance Management and Data dashboard

Optimise the network and achieve complete control and visibility through real-time intelligence and analysis.

Dashboard includes insights on:

- Network utilisation**
- Active users**
- Network availability**
- Sensor data (for asset monitoring)**
- 360° situational awareness (to increase safety)**

- Project design and engineering
- Coverage and capacity planning
- Deployment and Commissioning
- Operational monitoring and maintenance
- Analytics and ongoing performance optimisation

About Cellnex

As a Critical National Infrastructure Provider and one of Europe's leading telecommunication companies, Cellnex is trusted by enterprises, the emergency services and mobile network operators.

Cellnex also brings the expertise and experience of Edzcom, a Private Networks market leader and wholly owned subsidiary, meaning that our 4G and 5G Private Network solutions provide the most assured answer to the challenges of an Industry 4.0 world.

To find out more, visit our [Private Networks solution](#) pages.

Get in touch

Get in touch with our experts at PrivateNetworks@cellnextelecom.co.uk