

PRIVATE 5G ADOPTION AND USE CASES

The Role of Communication Service Providers

Recent research from TechTarget's Enterprise Strategy Group shows that private 5G solutions are rapidly gaining traction in enterprises globally. Driven by a desire to improve processes and gain actionable insights, various industries are planning to adopt these solutions to fit their specific needs. Communication service providers will play a significant role in enabling these private 5G solutions.



Private 5G Environments Are a Priority

Enterprises across virtually all industries are prioritizing private 5G networks. After evaluating the technology, more than 9 out of 10 organizations know or believe they have a need for private 5G connectivity, and 89% have formally quantified or are in the process of quantifying the value of a private 5G network. In addition, more than 8 out of 10 respondents believe deploying a private 5G network is a top 5 priority for their organization.



Among organizations that have deployed or are going to deploy private cellular networks,

96% know or believe **they need 5G connectivity.**



84% believe deploying a private 5G network is a **top 5 priority for their organization.**



Organizations Plan to Deploy Private 5G within 12 Months for a Variety of Use Cases



78% of respondents are looking to deploy **within the next 12 months.**

Organizations are actively pursuing private 5G deployments, with over three-quarters of respondents looking to deploy within the next 12 months. Organizations cited a number of general and industrial use cases that varied based on industry. Use cases included modular manufacturing, secure segmenting of network traffic, advanced predictive maintenance, analytics to drive real-time insights for decision-making, and computer vision for quality control, among many others.

TOP 5 GENERAL USE CASES



TOP 5 INDUSTRIAL USE CASES



More important are the use cases that are particular to each industry. The following are a few examples of private 5G network use cases from the healthcare, retail, manufacturing, and energy and natural resources industries.

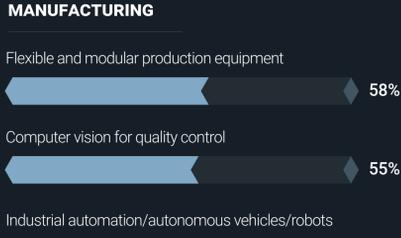
HEALTHCARE



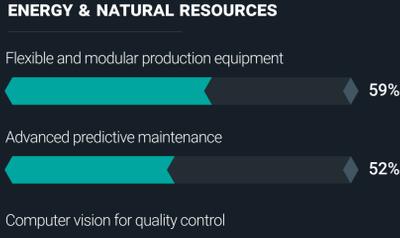
RETAIL



MANUFACTURING



ENERGY & NATURAL RESOURCES



PRIVATE 5G USE CASES ORGANIZATIONS PLACE THE MOST URGENCY ON



TOP DRIVERS FOR PRIVATE 5G OVER WI-FI



The Role of Communication Service Providers in Private 5G Environments

Given their experience and expertise in cellular communications, organizations are turning to communication service providers to enable private 5G environments. Specifically, organizations were most likely to partner with communication service providers for:

- Spectrum Acquisition
- Network Design
- Network Architecture
- Network Deployment



50% of organizations want to **leverage communication service providers to deploy edge infrastructure.**

“Customers who prefer an everything-as-a-service payment model **outnumber those who prefer a capital purchase by 6:1.**”

- Bob Laliberte, Enterprise Strategy Group Principal Analyst



The Private 5G Opportunity and Anticipated Benefits Are Real but Are Specific to Each Industry

Communication service providers can play a key role in enabling enterprises, but they must focus on their strength in wireless cellular networks to accelerate the deployment of private 5G networks. This includes leveraging an ecosystem of partners to ensure industry-specific results. By doing so, organizations believed these private 5G environments can provide enhanced or new user experiences, increased safety, operational efficiency, and improved security.

Increased productivity, efficiency, and security: 5G technology can help companies become more flexible and efficient in their production and operations, while improving security.

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