

5G as a Service (5GaaS) Frequently Asked Questions

Why do enterprises need a managed private wireless service?

Enterprises require secure data networks that can be trusted with business-critical tasks, especially for Industrial Internet of Things (IIoT) applications. Wi-Fi networks are congested and prone to interference. They lack the reliability, security and performance required for IIoT applications. Also, many enterprises want to own their own networks and maintain local and secure control of their data. As experts in building and managing wireless networks, Betacom offers a high-performance alternative to other wireless solutions from other providers.

How can Betacom provide private wireless networks without support from a public Mobile Network Operator (MNO)?

Private wireless networks are now possible due to the newly available Citizen Broadband Radio Service (CBRS) spectrum. In 2020, the FCC allowed wireless networks to start operating in a wide swath of prime midband spectrum (150 MHz) that was previously dedicated to the Department of Defense. Based on a tried and true spectrum sharing framework, Betacom provides 4G and 5G wireless services for dedicated use by an enterprise.

What is Betacom 5G as a Service (5GaaS)

Betacom 5GaaS is an end to end managed private wireless solution. It deploys rapidly, and cost-effectively delivers high reliability, enterprise security, superior bandwidth, and low latency. Betacom 5GaaS sits behind the enterprise's firewall to connect business-critical devices and applications including IoT devices, laptops and smartphones, cameras, robots, signage, machinery, and virtual reality applications. The enterprise owns and manages their own data. The solution leverages the best of 4G and 5G technologies to gain optimal value and performance for each customer's target use cases. Betacom allows the enterprise to focus on their core business without having to worry about the daily operations of managing their network.

What is included with Betacom 5GaaS?

Betacom 5GaaS is a fully managed private wireless network that puts network ownership and control in the hands of the enterprise, and includes the following:

- End-to-end network plan, design, build and manage – all done in-house by a team of experts
- Dedicated CBRS wireless spectrum
- Complete hardware and software solution – from the core to the RAN
- Cloud-based Security and Service Operations Center (SSOC) – a modern AI-driven NOC that provides network and security monitoring plus technical support
- Enterprise-grade service level agreements

Why is Betacom getting into this business?

Betacom's 30-year history is grounded in standing up and maintaining wireless networks for US wireless operators and large venues like hotels, convention centers, airports, and major stadiums, including the location of the past two Super Bowls. Betacom 5G as a Service is built on that solid foundation, delivering a robust private wireless solution that is designed, installed and managed for them.

Others are offering private wireless services, why is Betacom 5GaaS different?

Betacom has two main differentiators:

1. Other private wireless vendors don't offer a managed service, forcing them instead to acquire in-house expertise. This can be a big headache, an added expense, and a roadblock for experiencing the benefits that private wireless networks can offer.
2. At the heart of Betacom 5GaaS is its modern Network Operations Center (NOC). Betacom's Security and Service Operations Center (SSOC) is a highly secure command and control center. It is equipped with state-of-the-art AIOps tools and staffed by technical experts who proactively monitor and manage our customers private wireless network end-to-end.

What are the other features of being backed by the SSOC?

The SSOC offers all the tools and technical expertise to securely manage a private wireless network.

These include:

- AIOps tools providing real-time network performance monitoring
- Regular preventative maintenance on all components
- Technical support with wireless network experts
- Security monitoring and vulnerability analysis
- Customer portal access to submit trouble tickets, change requests, and get answers to FAQs

How does 5GaaS compare to Wi-Fi?

Betacom 5GaaS is best viewed as an augmentation to enterprise Wi-Fi. Although Wi-Fi is widely used it has some distinct drawbacks for certain use cases. Based on unlicensed spectrum, it can become congested, causing insufficient bandwidth for mission-critical applications. Wi-Fi also lacks the security provided by a SIM-based solution. Betacom 5GaaS uses managed spectrum that delivers high bandwidth, low latency, and unmatched security.

How does Betacom design 5GaaS for different enterprise use cases?

Betacom provides a turnkey solution. At the beginning of each project, Betacom will collaborate with the enterprise to determine requirements for coverage and specific applications to effectively plan and design the network. Betacom uses building designs and local teams to conduct a site walk through. Upon project approval, Betacom will install and manage the solution.



Figure 1: Private 4G/5G wireless use cases

Will additional IT resources need to be added to manage 5GaaS?

Betacom SSOC will provide end-to-end network and security monitoring of the 5GaaS network. Betacom provides the tools and technical expertise to manage the 5GaaS solution, so the enterprise can focus on their core business.

Contact us to learn more:
www.betacom.com/contact-us

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