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 IoT applications. Wi-Fi networks are congested and prone to interference, lacking the reliability, security and performance required for new AR/VR IoT applications. We see a lot of interest from enterprises to own their own networks and maintain local and secure control of their data. We are experts and building and managing wireless networks, so the enterprise can focus on their core business without having to worry about the network.

How can you offer a private wireless network without support from a public MNO network?

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, we can now offer 4G and 5G wireless services for dedicated use by an enterprise.

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

Betacom 5GaaS is a private wireless solution provided as an end-to-end managed service from wireless service experts. 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.

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

Why is Betacom getting into this business?

Our 30-year history is grounded in standing up and maintaining wireless networks for US wireless operators and large venues such as hotels, convention centers, airports, and major stadiums, including the location of the past two Super Bowls. With Betacom 5G-as-a-Service, we are building on that solid foundation to deliver a robust private wireless solution that we will design, install and manage for our enterprise customers.

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

Betacom has two main differentiators:

1. Other private wireless vendors don't offer their enterprise customers a managed service, forcing them to build in-house expertise for operating the network. This can be a big headache, an added expense, and an obstacle for experiencing the benefits private wireless networks can offer.

2. At the heart of Betacom 5GaaS is its modern NOC – what we call our Security and Service Operations Center (SSOC), 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.

Can you tell me more about the SSOC?

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

- 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
- Access to customer portal 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. Wi-Fi is widely used but has some distinct drawbacks for certain use cases. It is based on unlicensed spectrum which means 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.

Figure 1: Industries that can benefit from Betacom 5GaaS

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

Betacom provides a turn-key solution. At the beginning of the project, we collaborate with the enterprise to determine requirements for coverage and specific applications to effectively plan and design the network. We use building designs and may use our local teams to conduct a site walk through. Upon project approval, we will install and manage the solution.

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. We provide the tools and technical expertise to manage the 5GaaS solution, so enterprises don't have to.