

Today's Enterprise Networking Challenges

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. Enterprises are increasingly interested in owning their own wireless networks to maintain control over their data and network performance.

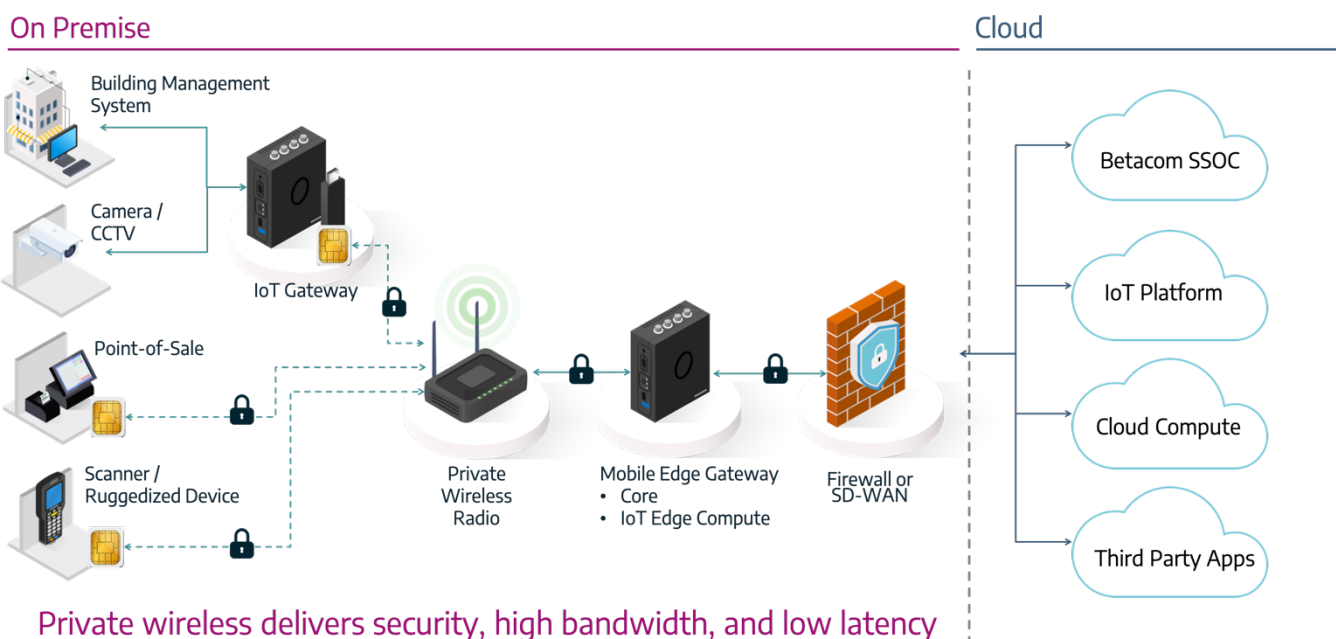
Private wireless networks running on Citizen Broadband Radio Service (CBRS) spectrum are ideal solutions for this need. However, today's private wireless radio and core vendors don't offer their enterprise customers a managed service, forcing them to build in-house expertise for operating these new private wireless networks. This is an added expense and can be an obstacle for experiencing the benefits private wireless networks offer.

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

Betacom 5GaaS is a CBRS 4G/5G private wireless solution provided as an end-to-end managed service from wireless service experts. It deploys rapidly and delivers high reliability, cost effectiveness, 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, 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.

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 design, install and manage for our enterprise customers. 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.

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 networks end-to-end.



Key Features

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
- Dedicated CBRS wireless spectrum
- Complete hardware & software solution – from the network 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

Betacom 5GaaS Solution

Betacom 5GaaS is deployed with indoor and outdoor access points (AP), based on your requirements, and includes:

	Indoor AP	Outdoor AP
CBRS Spectrum	40 MHz	20 – 40 MHz
Radio Access Network (RAN)	x	x
Mobile Core	x	x
Mobile Enterprise Gateway	x	x
SIMs	20	40
IT & Security Infrastructure	x	x
Managed Network & Security Services	x	x

Managed Network & Security Services

The SSOC is included with Betacom 5GaaS and offers all the tools and technical expertise needed to securely manage the 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

The Betacom SSOC is available when needed most. Technical support is available during normal business hours (Monday through Friday, 8am – 8pm EST) and 24 x 7 x 365 for severity 1 issues.

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 critical applications. Wi-Fi also lacks the security provided by a SIM-based solution. 5GaaS uses managed spectrum that delivers high bandwidth, low latency, and unmatched security.

How does Betacom design 5GaaS for my use case?

Betacom provides a turn-key solution. At the beginning of the project, we will collaborate with you to determine your requirements for coverage and use cases to effectively plan and design your network. We will use your building designs and may request the opportunity to do a site walk with you. Upon approval, we will install and manage the solution.

What bandwidth and latency speeds can be expected with 5GaaS?

20 MHz of spectrum can achieve 100 Mbps of bandwidth which can be optimized for a combination of downlink (e.g., tablets, laptops, and digital signage) or uplink (e.g., CCTV and video applications) requirements. 40 MHz can achieve 200 Mbps. Latency is typically 10-30 milliseconds.

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

Betacom SSOC will provide end-to-end network and security monitoring of your 5GaaS network. We provide the tools and technical expertise to manage your 5GaaS solution, so you don't have to.

To learn more about how Betacom 5GaaS can transform your organization, please contact info@betacom.com.