

# 5G as a Service (5GaaS)

## Today's Enterprises Face Networking Challenges

Enterprises today require secure data networks that can be trusted with business-critical tasks. You need wireless connectivity that supports Industrial Internet of Things (IIoT), automation and new augmented/virtual reality (AR/VR) applications. Wi-Fi networks are congested, prone to interference and lack the reliability, security and performance necessary for these technologies. And like most enterprises, you are likely interested in owning your own wireless networks and maintaining control over your data and network performance.

There is a new solution available to you – private wireless networks running on Citizen Broadband Radio Service (CBRS) spectrum. When selecting a private 4G/5G solution, some additional considerations should be taken into account. Is the network truly private and under my control or will my data leave my premises? Will I have to pay for data usage? Do I need to hire cellular experts to install and run the network? How can I keep my network secure?

## Betacom 5GaaS

Betacom 5GaaS is a private solution provided as a turnkey managed service from wireless service experts. Betacom has spent 30 years in standing up and maintaining the networks for US wireless operators in places like hotels, convention centers, airports, and stadiums. With our 5GaaS, high-performance enterprises like yours get a robust private wireless solution that we design, install and operate for you.

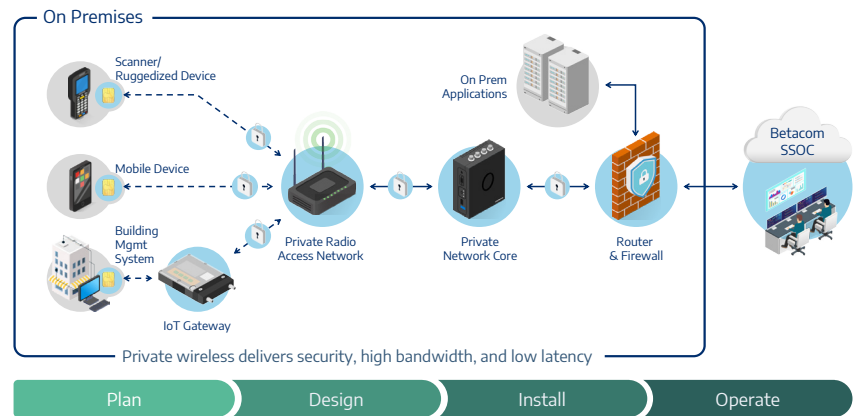
Betacom 5GaaS deploys rapidly and delivers reliable, superior bandwidth with low latency. The solution is built on a unique cyber defense architecture and sits behind your enterprise's firewall to protect business-critical data and applications including IIoT devices, laptops, cameras, robots, digital signage, machinery, and virtual reality appliances. You own and manage your data, leveraging the best of 4G and 5G technologies for optimal value and performance, ensuring the security of your enterprise at an affordable price.



## Industrial-Grade Security Backed by Our Network Operations Center

From the wireless spectrum we use, to the way we design and manage your network, security is built into every element of Betacom 5GaaS. Strong 4G/5G authentication and encryption, combined with our AirGap Protection™ architecture and Zero Trust design hardens your network against threats and limits the impact of potential breaches. Backing it up is a secure command and control center – what we call our Security and Service Operations Center (SSOC), which provides your IT staff with another layer of intrusion detection. We continually monitor your network's performance and traffic patterns and conduct regular vulnerability scans – alerting you to threats and irregularities that could trigger your enterprise response strategy. This multi-layered security solution reduces the risk, complexity and cost of adding new industrial applications into your IT environment.

## Betacom 5GaaS Architecture



## Key 5GaaS Features

- End-to-end network plan, design, build and management
- Dedicated CBRS wireless spectrum
- Complete hardware and software solution
- Secure architecture that isolates 4G/5G traffic from other IT infrastructure
- Cloud-based SSOC that provides 24x7 performance and security monitoring and technical support (see side bar)
- Enterprise-grade service level agreements
- Indoor and outdoor access points, based on your requirements

5GaaS Components	Indoor AP	Outdoor AP
CBRS Spectrum	40 MHz	20 – 40 MHz
Radio Access Network (RAN)	✓	✓
Mobile Core	✓	✓
Mobile Enterprise Gateway	✓	✓
SIMs	20	40
IT & Security Infrastructure	✓	✓
Managed Network & Security Services	✓	✓

**5GaaS empowers high-performing enterprises across industries**



Airports



Healthcare



Manufacturing



Offices



Retail



Schools



Stadiums



Warehouses

## Significant 5GaaS Benefits

### Better than Wi-Fi

5GaaS delivers superior performance without the drawbacks of Wi-Fi. Public Wi-Fi can become congested, with dark spots and insufficient bandwidth for critical applications, and it lacks the security of a SIM-based solution. 5GaaS uses managed spectrum for a reliable, high-speed network that sits behind your firewall and offers end-to-end encryption for maximum security.

### Superior Bandwidth and Latency Speed

20 MHz of spectrum can achieve 100 Mbps of bandwidth. This can be optimized for a combination of downlink (e.g., tablets, laptops, and digital signage) or uplink (e.g., CCTV and video applications) requirements to meet the demands of your enterprise. 40 MHz can achieve 200 Mbps. Latency is typically 10-30 milliseconds on 4G and will reach under 1 millisecond on 5G.

### Expert Design for Each Use Case

As a turnkey solution, Betacom collaborates with your enterprise at the beginning of each project to plan and design the network with coverage requirements based on your location and use cases. We reference each operation's building designs and do a site walk. Upon your approval, Betacom experts install and manage the solution.

### All Inclusive Management and Security

Betacom provides end-to-end performance and security monitoring of the 5GaaS network. We alleviate the burden from your in-house enterprise IT staff, providing you with the tools and technical expertise needed to manage the network with full visibility and support. Your enterprise is free to focus on your core business.

## Betacom 5G as a Service Ticks all the Boxes

Betacom 5GaaS enables digital transformation for the modern enterprise, exploring new options for high performance connectivity. It's a turnkey managed solution that allows the enterprise to control the operational criteria, the data, and the network as a whole – with confidence.

- ✓ Private, highly secure connectivity under enterprise control.
- ✓ Delivers high-speed performance and ultra-low latency.
- ✓ Proven wireless technology that can evolve to 5G.
- ✓ Flexible to accommodate discrete services and scale as needed.
- ✓ Best-in-class solution from a proven technology provider.
- ✓ Designed for business-critical demands and operational efficiency.
- ✓ Your network without in-house staff or stress; Betacom operates it.

Contact us to learn more:  
[www.betacom.com/contact-us](http://www.betacom.com/contact-us)

