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Betacom AirGap Protection™ Frequently Asked Questions

How is the AirGap Protection architecture different from other private wireless networks?

Unlike alternatives that share infrastructure or spectrum, Betacom's private wireless networks are completely isolated from other IT or public networks – ensuring that business-critical data on the 5G network stays private and encrypted from end to end. Another important distinction is micro-segmentation, which allows customers to define security policies for different nodes and traffic types, rather than deploying a single configuration for the entire system.

Why is this approach more secure?

Betacom AirGap Protection adds another layer to our Zero Trust approach by providing greater isolation and control over the devices and data on the private 5G network. If an attack compromises any part of your network perimeter, AirGap Protection limits the impact from spreading to mission-critical services running on the cellular network.

What is micro-segregation?

Micro-segregation creates physical and logical separation between applications, allowing customers to assign security policies to certain types of traffic or nodes. For example, temperature sensors can be isolated from applications controlling robots on a factory floor, closing loopholes in which hackers compromise simple nodes to gain access to business-critical systems.

What kinds of attacks does this defend against?

The AirGap architecture was designed to protect against common attacks on traditional networks, as well as cellular vulnerabilities that have been identified by 3GPP and the OnGo Alliance – including man-in-the-middle, stolen credentials, session hijacking, denial-of service, etc.

Does Betacom actively monitor for new types of attacks?

Betacom's Security and Services Operations Center provides 24/7 monitoring of network performance and performs regular vulnerability checks – alerting customers to suspicious traffic and triggering their response plan.

Does the AirGap architecture create additional overhead or impact network performance?

Betacom networks are designed from the ground up for both performance and security. After working with customers to identify the requirements of their unique environments, we test and optimize the network to meet stringent service level agreements (SLAs).

Does this make it more complicated to deploy or manage private 5G networks?

Just the opposite. Since the 5G network is completely separate from other IT infrastructure, it is much easier to design, test and install without operational interruptions or integration headaches. And thanks to Betacom's 5GaaS model, we provide 24/7 management and vulnerability monitoring through our Security and Services Operations Center – alleviating IT staffing constraints and bridging skill gaps.

How does 5G traffic stay encrypted if Betacom monitors it remotely from the SSOC?

Betacom's Security and Services Operations Center monitors traffic behavior and network health without looking at the data itself, so the data is never decrypted as it transported over the cloud to the SSOC.

If my 4G/5G devices are invisible to my IT network, can I apply consistent XDR policies?

Because AirGap Protection operates on the network IP layer (Layer 3), customers can easily integrate their private 5G network into their existing enterprise security stack or managed service solution.

Can I deploy Betacom's AirGap architecture within my hybrid cloud environment?

AirGap protection is applied to the local enterprise network on premises, which handles mission critical services. Betacom can help customers implement network design practices that accommodate hybrid and remote cloud services and increase the efficiency of the cyber-defense structure.

Does this new architecture require changes to the RAN and core?

We are vendor agnostic and work with great partners to continually optimize their products and address security at a system level. AirGap Protection is simply an architectural shift in the way we design and deploy those products.

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

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