

Private networks and the evolving 5G ecosystem

Robust 5G networks combine best-in-class components to deliver flexibility, simplicity and low cost of ownership



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Druid

5 G IS BUILT ON THE principles of mobility, reliability, low latency and speed. Private 5G networks expand on those features to meet the government's unique communication needs.

Private networks are well-suited to agency use cases for a number of reasons. First and foremost is security, which is the bedrock of every cellular network. Beyond the built-in security private 5G networks bring, they also have the capacity to add extra layers of security. The other components of a robust network include radio frequency technology and the latest 5G devices and radios.

Once that foundation is in place, agencies can explore the wide range of use cases that a private 5G network can address. Deployments include standalone networks for first responders, border patrol agents and tactical response units, as well as secure, reliable networks for telemedicine providers. 5G's incredible reach enables it to function with equal levels of quality in buildings, across a military base and in backpacks for first responders.

MORE CHOICE AND BETTER VALUE FOR GOVERNMENT

5G technology can also be deployed on commercial off-the-shelf hardware, and the number of radio access network (RAN) vendors and other device manufacturers is rising exponentially, which means more choice and better value for government agencies.

the most important is to focus on the use case, not the technological details. The specifications developed by the 3rd Generation Partnership Project (3GPP) are essential to any successful 5G network and should be included in compliance requirements. But rather than being driven by 3GPP, requests for proposals should present the use case from the agency's point of view.

The next step is to choose partners who understand the agency's requirements and can utilize all the benefits of 3GPP specifications to deliver on those requirements. Again, rather than getting locked into a single-vendor solution, agencies should strive for a private 5G network composed of best-in-class solutions.

"5G has an unmatched ability to deliver cost-effective, fast communication — especially when industry and government work together."

Druid Software is among the companies that are focused on making private 5G simple and accessible for government agencies. Our approach is evolving toward bringing together an ecosystem of partners to design networks tailored to an agency's specific needs. Natural alignments are forming among systems integrators, hyperscalers and partners who produce best-in-class devices, RANs, infrastructure and hardware.

There are some key considerations agencies should keep in mind when they're creating 5G networks. One of

TAILOR-MADE FOR MISSION-CRITICAL COMMUNICATIONS

The ultimate goals are simplicity, flexibility and low cost of ownership. A private network built on open solutions allows agencies the flexibility to integrate their own applications and services, and it is easy and cost-effective to operate.

Druid's Raemis™ application is a mature 3GPP-compliant 4G/5G platform that harnesses 5G, 4G, 3G, 2G and Wi-Fi radios from any vendor to streamline the implementation of standalone networks. It has features



that are designed for mission-critical communications and a guaranteed quality of service, including capabilities for prioritization and network slicing.

In addition, Raemis™ scales up as easily as it scales down, enabling the set-up of small or very large private networks, and it can be deployed on edge hardware devices or in high-dependency cloud-native

environments. Built on an open REST API, Raemis™ supports easy integration with mission-critical applications and offers an intuitive user-friendly dashboard that makes private networks simple to use and manage.

5G has an unmatched ability to deliver cost-effective, fast communication — especially when industry and government work together

to create best-in-class networks tailored to agencies' unique requirements. ■

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Make private 5G simple with Raemis™

Network deployments for defense, logistics, healthcare and more

- Device Prioritisation
- Scale up and down
- Easy to Integrate
- Simple to use
- Radio Agnostic
- Flexible Deployment

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