

Deploying a Private Cellular Network Where to Start?



Deploying a private cellular network can be a daunting task, but you don't have to do it alone. At Sierra Wireless, we've teamed up with world-class OEMs and system integrators to simplify the complexity. AirLink[®] purpose-built solutions are optimized for seamless integration with the best private network providers in their respective domains. It just works! Start with Sierra, your gateway to fully integrated 5G & LTE Private Network Solutions.



Clearly define your use case

To create a private network that meets your organization's unique needs, you must first understand what you wish to achieve. Start by identifying the problem you are trying to solve and establish Key Performance Indicators (KPIs). Determine the coverage area, number of users, types of devices, and required services accordingly.



Determine network requirements

Based on your use case, you'll need to decide whether to use 5G - for extreme throughput and low latency - or an LTE network that can be upgraded to 5G later. Consider additional factors such as spectrum availability, security needs, and redundancy requirements.



Design your network

With your use case and network requirements in mind, create a network design that includes base station placement, infrastructure components, and antenna locations.



Choose the right equipment

It is now time to select the right components for building your private cellular network infrastructure, such as radio access network, evolved packet core, cellular routers, but also installation and support services. Look for vendors with a proven track record in your industry and experience in integrating with other partners in the value chain.



Proof of Concept

Before deploying the network fully, run a Proof of Concept (PoC) to test the network's viability and check for any integration problems.



Deployment

For large-scale networks, consider dividing the deployment process into multiple phases to ensure a smooth and manageable implementation. Collaborate with your vendors to establish a comprehensive monitoring and maintenance strategy, which will help you maintain an efficient, secure, and reliable network that caters to your organization's requirements in the long run.

Start Today

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