



RUCKUS® CBRS private wireless

Mission-critical connectivity

COMMSCOPE®

Superior indoor and campus-wide connectivity for the toughest wireless challenges

Enterprises are facing unprecedented demand for wireless connectivity. End users and applications are increasingly mobile—whether in a hospital, office building, university, factory, store, stadium, or other location. The de facto standard for this private wireless connectivity is Wi-Fi. While Wi-Fi is simple to deploy, it cannot always provide predictable latency, quality of service (QoS), bandwidth, or coverage. This is particularly true when access points (APs) are heavily loaded or operating in challenging environments with high RF interference.

Now, thanks to new spectrum sharing models in the United States and other markets, enterprises can deploy their own 4G/5G private wireless networks. These networks are designed to operate with the highest level of predictability and QoS and incorporate the highest level of security. In addition, they support mobile connectivity and deliver much broader coverage—enabling entirely new use cases for indoor and outdoor wireless.

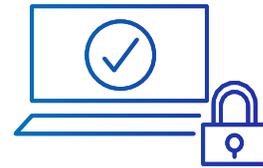


The benefits of RUCKUS CBRS private wireless



Meet the most challenging connectivity requirements with better performance and reliability

CommScope's RUCKUS CBRS private wireless benefits from clean spectrum and 4G/5G technology, which use "scheduled" transmissions so each device gets radio resources when needed. This ensures more predictable, higher QoS performance than Wi-Fi, which is contention-based and operates in heavily used spectrum bands.



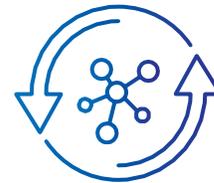
Provide always-on end-to-end security

All 4G and 5G connections, including private wireless, provide the highest level of security. The radio interface between device and radio is encrypted, and the device uses a SIM for authentication.



Easily extend network coverage to new areas with up to six times more range than a Wi-Fi AP

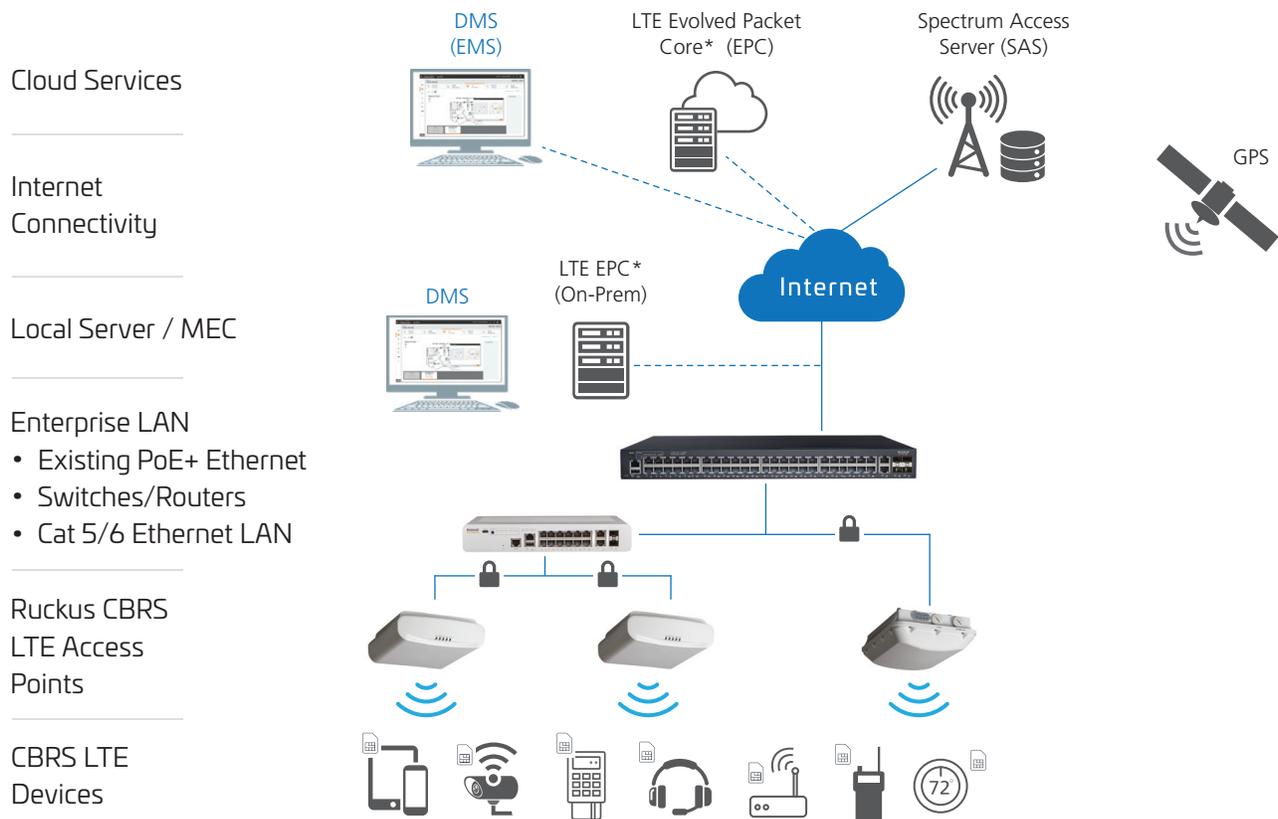
Thanks to higher power limits and clean spectrum, CBRS private delivers much better coverage. A low-power Category A CBRS AP can cover a 2,000-foot radius when deployed outdoors with line of sight.



Choose from a broad ecosystem of devices, with more being added all the time

More than 450 devices are certified for CBRS by the OnGo Alliance, with more being added all the time.

RUCKUS CBRS private wireless topology



RUCKUS CBRS is designed for fast and straightforward enterprise deployments. All RUCKUS CBRS access points connect over standard Cat 5 or Cat 6 structured cabling, use PoE+ power, and can connect over new or existing enterprise networks. They have self-organizing network (SON) capabilities to simplify RF planning and optimize capacity in high-density locations. And RUCKUS simplifies timing requirements by including GPS inside all its APs, as well as supporting IEEE 1588v2 PTP mode—which allows one AP to act as a GPS master for up to 32 other RUCKUS CBRS access points on the same local area network (LAN).

RUCKUS CBRS access points

CommScope offers a broad portfolio of RUCKUS private wireless APs, including indoor and outdoor. These private wireless access points that utilize the CBRS spectrum deliver unprecedented performance, security, mobility, and range to support new and more challenging enterprise wireless connectivity needs.

Private wireless AP Management portal powered by DMS

Private wireless AP Management offers an easy-to-use interface to configure and manage your access points. It is also a powerful cloud-based platform for day-to-day operations and monitoring of your network.

Business uses



HOSPITALS

Hospitals are very challenging RF environments with highly mobile staff and connected devices. Private wireless can help address coverage issues, deliver seamless roaming, ensure security, or simply provide additional capacity to enable effective caregiver communication.



LARGE PUBLIC VENUES

Venues such as stadiums and airports often have DAS and high-density Wi-Fi for guest connectivity. However, they need a secure, reliable network for internal operations. Private wireless is ideal for security staff, vendor kiosks, IP video backhaul and other internal use cases.



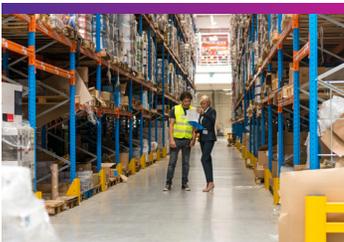
UNIVERSITIES

Universities are very mobile environments that have a full range of both indoor and outdoor use cases to cover dorms, classrooms, stadiums, labs, and outdoor areas.



RETAIL

Many retailers are looking at private wireless to enable high-quality mobile POS and to extend coverage outdoors for curbside pickup and seasonal POS kiosks.



MANUFACTURING

Private wireless networks are critical to Industry 4.0 initiatives such as remote diagnostics and predictive maintenance, AI and machine learning, augmented reality and virtual reality, and autonomous vehicles and robots. Each of these needs secure, robust connections—often in very challenging environments.



CONSTRUCTION

Large construction projects can last years and involve thousands of different workers. They need connectivity across the site to monitor progress, check blueprints and track assets and people. Private wireless provides secure connections with very few access points.



HOTELS

Large hotels and convention centers have hundreds of staff in very large venues. Private wireless can help keep them always connected and support use cases such as push to talk, IP video security, mobile POS, temporary kiosks, and remote connections.



MUNICIPALITIES

Smart cities and towns are deploying more and more internet of things (IoT) and security applications using a multitude of cameras, sensors, and other devices. All these devices need to be connected to the network, and private wireless offers a simple, reliable, low-cost solution to easily enable smart city solutions.



A trusted partner that delivers it all

For over 40 years, CommScope has led the industry in helping companies of all sizes scale, build and sustain robust connections that power more efficient buildings. From office buildings, hospitals, hotels and airports to NFL stadiums, college campuses and beyond, CommScope is a leader in in-building cellular, Wi-Fi, IoT and private wireless systems. We have tremendous in-house expertise and a global network of experienced solution providers.

Contact your CommScope representative or solution provider today to learn how your network can do more than you ever imagined. Visit commscope.com to learn more.

CommScope pushes the boundaries of communications technology, with game-changing ideas and ground-breaking discoveries that spark profound human achievement. We collaborate with our customers and partners to design, create and build the world's most advanced networks. It is our passion and commitment to identify the next opportunity and realize a better tomorrow. Discover more at commscope.com.

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