



CommScope Federal

Enabling next-generation connectivity

Maximizing Indoor Wireless Connections

For federal agencies, providing robust, reliable wireless connectivity that reaches anywhere inside a building is a matter of workplace efficiency, employee morale and customer service. But holding a signal inside any part of a building is a challenge—even more so for modern buildings designed with energy-saving windows and reinforced structures. And for government buildings, the fact they were built decades ago only makes indoor wireless connectivity more challenging.

Whether in a federal civilian office building in Washington, DC or a military base anywhere in the world, agencies need to treat connectivity as the fourth utility; that is, providing the infrastructure for cellular and Wi-Fi just as they do for water, power and gas. Agencies have mission-critical needs for transferring massive amounts of data with low latency. They are looking to expand the use of next-generation technologies such as hi-definition video, virtual/augmented reality and the Internet of Things. These are the technologies that enhance operations but are not supported by outdated legacy networks and infrastructure.

Whether by cellular or Wi-Fi, CommScope delivers solutions that are simple, reliable and adaptable, providing network coverage for:

- 5G
- Wi-Fi 6
- Advanced analytics
- Artificial intelligence
- Internet of Things
- Augmented/virtual reality
- Hi-definition video

CommScope has engineered solutions to modernize federal network infrastructure for the fastest, most reliable connections inside federal office buildings and military bases. Our in-building wireless solutions are:

- Intelligent, future ready and easy to manage
- All-digital meaning changes are made in the software, not the hardware—so it's simpler to configure and maintain

COMMSCOPE®
RUCKUS®

FEDERAL SOLUTION BRIEF

- Able to support 4G services today, enabling agencies to evolve to 5G when ready
- Designed to drive a better user experience

Using RF (radio frequency) design and network architecture, CommScope solutions for in-building wireless include:

- **ION-E & Era® Distributed Antenna Systems (DAS)** extend reliable in-building and outdoor cellular coverage
- **RUCKUS® wireless access points and ethernet switches** for long-lasting, superior connections and user experiences in any location
- **Private LTE Networks with CBRS (Citizens Broadband Radio System)** RUCKUS® CBRS access points allow agencies to deploy their own private LTE network by simply defining the coverage area, installing the RUCKUS LTE Access Points, and subscribing to the needed cloud services
- **SmartZone Data Plane®** wireless LAN that routes data traffic securely
- **OneCell® LTE Small Cell** enables mobile network operators to meet the demand for reliable LTE services where they matter most

DAS and small-cell technologies enhance signals by using wireless transmitters and receivers designed for small spaces. DAS systems use the licensed frequencies of mobile operators between the macro network-connected head and a series of remote antennas throughout the building. Small cells operate like miniature macro-cell sites, using their own base station integrated into an operator's core network.

CommScope Wi-Fi certifications include:

- FIPS 140-2 Validated
- DISA DoDIN APL Approved
- NSA CSfC Approved
- Common Criteria
- TAA

Another way to improve in-building coverage and capacity is by using the shared spectrum of CBRS. CommScope was among the first to be fully FCC-certified to work in the new mid-band spectrum, which supports 4G and 5G, and allows for private LTE networks. For agencies, this means retaining ownership of sensitive data so that it doesn't go through a third-party service provider. It also means complete ownership of the eco-system so monthly subscriptions are eliminated.

Now meets next

At CommScope Federal, we push the boundaries of communications technology to create the world's most advanced networks. Across the globe, our partners and their solutions are redefining connectivity, solving today's challenges and driving the innovation that will meet the needs of what's next.

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