

MCA | RF Site Surveying



MCA Professional Services

For over 25 years, the CNS team within MCA has enabled thousands of organizations in the public and private sectors to benefit from secure wireless communication technologies, improving operational productivity and efficiency. We offer a wide array of secure wireless communication products from various industry leading manufacturers, providing solutions for highly available, mission-critical communications between critical assets from local offices to remote and/or mobile field locations. MCA serves the nation's critical infrastructure by creating secure communication networks that pass data wirelessly between key systems linking remote personnel and machine assets. We sell, design, configure, and install cellular wireless (LoRaWAN/4G/5G/PLTE) data communications hardware and software, providing industry targeted IIoT connectivity solutions to fit our clients' exacting needs.

Our engineering services team offers clients' RF Site Survey services, which provide RF network designs for new wireless infrastructure, or assessment of existing wireless infrastructure, with recommendations for improvement.

Service Description | On-Site RF Surveying

RF network infrastructure is becoming increasingly critical to daily operations, and, in many cases, is the primary means of communications for networked devices. As a result, it is critical that these RF networks perform optimally, which requires proper design to achieve. Radio Frequency (RF) networks are subject to many challenges, including other interfering devices, physical obstructions causing signal reflection/refraction, channel allocation and general RF noise.

Our engineering services team provides RF Site Survey services to assist customers with designing RF-based infrastructure that is efficient, robust and secure. Our engineers will perform initial studies on the requirements of a proposed RF infrastructure, resulting in an initial plan for execution. Once this plan is determined, an on-site RF assessment will be conducted to confirm the plan, or modify it based on the on-site findings.

This on-site assessment will take into account the overall environment, including RF noise, existing RF infrastructure, physical obstructions and the overall channel usage in the area to be assessed. The result of this service is an RF Site Survey report which will provide details on the equipment to be installed, optimal mounting locations, expected RF performance metrics, and additional hardware requirements (such as cables, lightning arrestors and antennas).

Featured Benefit | Secure Wireless Design

Wireless technology is often perceived as less inherently secure than wired technologies. However, this is largely based on the accessibility of the transmission medium. An Ethernet port on the outside of a facility is just as insecure as an open wireless network. The advent of wireless technology has done significantly more to improve the security of all transmission media.

Security is best accomplished using a layered approach, targeting each layer of the communication, from the wireless medium to the application layer. The experts at MCA are well versed in wireless network security, and can provide recommendations to properly secure wireless data transmissions, and additional strategies to secure important data.

Service Benefits

- Improved Wireless Performance
- Documented Infrastructure
- Design to Specific Device Requirements
- Security Recommendations
- Verification of Coverage Requirements
- Improved User Experience
- Future Planning

About OUR CNS Team

- Founded in 1996
- 30+ Employees
- Elite 5G Cradlepoint Partner
- Premiere AirLink Reseller
- Top Digi Resale Partner
- Located in Chapel Hill, NC
- Joined MCA Family in 2019

About MCA

- 30+ Years in Business
- 1000+ Employees
- Locations in 13 States
- 80+ Regional Offices
- 65,000+ Customers
- "Service-First" Approach
- Top Motorola Partner

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