

# IN-BUILDING & UNDERGROUND WIRELESS SYSTEMS

The Public Safety Practice of RCC Consultants provides consulting and engineering support for emergency services and governments throughout the world. This group is responsible for client engagements involving all aspects of wireless voice and data radio, automatic location systems, emergency number systems, emergency communications centers, and emergency operations centers. Services include planning for strategic systems, emergency operations, business continuity as well as system design services, procurement support, implementation management, system optimization, and outsourcing services.

RCC is a recognized leader in the provision of professional public safety communications and information systems consulting and engineering services. Our experience spans the broad range of law enforcement, fire service, emergency medical services, emergency management, and emergency call centers from largest national, state, regional, and municipal organizations to small rural departments.

## RCC Value

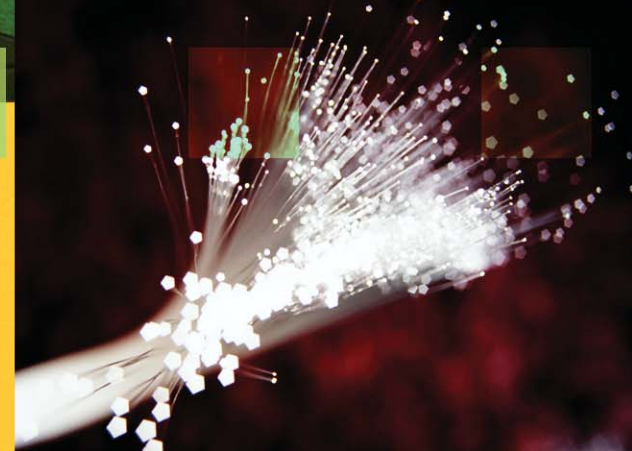
As a leading consulting, engineering and integration services firm focused on communications and information system technologies, RCC has the right people, tools and experience to ensure the success of your communications or information technology-based project. RCC provides a full range of skills needed to identify and deliver a successful solution, including strategic direction, business analysis, system design, procurement support, implementation support, and systems integration. We have developed comprehensive methodologies based on hundreds of engagements with public and private sector clients in a wide range of industries. And our consultants and engineers are some of the most respected and sought-after specialists in their fields, each have more than a decade of experience in the relevant technologies.

Twenty years ago, RCC was already at the forefront of wireless communications and information system technology. Today, RCC is a highly focused consulting, engineering and integration company with diverse customer bases from both the public and private sectors. Our experience and technical competence helps our clients make more knowledgeable decisions about their technology-based projects. These services allow clients to select the right solution for their needs, reduce costs, and improve efficiencies and quality of services.



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# Technical Expertise

As financial commitments to increasing complex communications and information technology systems increases, public safety agencies and governments look to RCC to provide solid insight into existing and emerging technologies. RCC maintains a strong commitment to maintaining a core of technological competencies that cross multiple industries and technologies. It is through the strength of a diverse staff and a constant commitment to industry leadership that RCC maintains its ability to provide a precise, disciplined approach to every engagement across a broad spectrum of technologies. RCC is capable of providing its clients with a wide range of services that support these technologies.

# System Implementation

RCC offers a highly flexible approach for providing management and technical services during network/system implementation. In some instances, we have served as a System Integrator, taking complete end-to-end responsibility for system acquisition and implementation. In other instances, we have served as an Owner's Agent, providing program management and technical services while working in concert with the client's purchasing organization.

# Outsourcing

RCC provides a full range of system operation and outsourcing services to expedite the construction and operation of in-building and underground radio frequency systems. RCC will build to suit, operate, and maintain indoor or underground antenna systems for one or more wireless services. RCC will provide turnkey service, including acquisition of rights to install the antenna system, engineering, installation, and operations and maintenance.

# Knowledgeable Professionals

We have a heritage rich in experience and talent. Our pragmatic approach to building human talent that represents the operational environment as well as technical expertise has earned us the reputation of providing unparalleled service to our clients. This innovative and creative philosophy has attracted top talent from all relevant disciplines. Our team includes degreed engineers, Licensed Professional Engineers (PE's), certified Project Management Professionals (PMP), and industry professionals with training and professional certifications on the design and operation of all major manufacturers' platforms.

Our acknowledged authority in the communications and information technology fields has lead to valuable experience with leading communications and information systems vendor products and services. Our position enables us to gain valuable insight into current technologies and those new technologies that are just beyond the horizon.

RCC has the focus, the experience, the team and the industry recognition to ensure the success of your communications or information technology project

## AREAS OF EXPERTISE

- Business Case Development
- Contract Negotiations
- Coverage Surveys
- Facility Management/Outsourcing
- Interference Identification & Resolution
- Antenna System Design & Optimization
- Combining System Design
- Market/Technology Assessment
- Microwave System & Network Design, Replacement & Implementation
- Non-Ionizing Radiation Exposure Analysis & On-Site Certification
- New Wireless Services vs. Incumbent Negotiations
- Project Management
- Radio Propagation Modeling Including: PCS & Wireless Local Loop
- Rights of Way Leasing
- Regulatory Compliance Studies
- Site Acquisition
- System Design and Engineering:
  - Analog and Trunked Radio Systems
  - Cellular Telephone Systems
  - Conventional Mobile Telephone Systems
  - Mobile Data Systems
  - Personal Communications Systems
  - Wireless Local Loop
- System Maintenance and Service
  - Testing and Optimization of Full Systems or Individual Sites
- Wide Area Dedicated Wireless Data Networks



## RCC Services

Rapidly changing economic conditions and increasing citizen demand for easier access and improved service is driving governments and emergency service agencies to embrace the opportunities made possible by computer and communications system technologies. RCC's innovative consulting and solid engineering services cover every aspect of emergency services from national through state/provincial and local governments.

We help government embrace the opportunities made possible by today's technologies. RCC is uniquely qualified to assist our government clients in improving information and communications system technology thereby improving efficiencies and service to its citizens. As a recognized industry leader, RCC brings a depth of experience in the following areas:

- **Strategic Planning**
- **Public Safety and Governmental Telecommunications Solutions**
- **Public Safety and Public Service Communication Systems**
- **Consultation and Engineering of Public Safety Information Systems**
- **Interoperable Systems**

Our project teams focus on providing the highest quality customized services that meet the specific needs of the client regardless of size. The methodologies we employ have evolved over more than 20 years experience in serving public safety and governmental clients. We believe that enabling our client to achieve its project objectives means working in partnership to define technology strategies and locating the most effective means towards achieving optimal solutions. Our traditional services includes:

- **Development of strategic plans for the application and implementation of new and emerging technologies, including needs assessment, technology evaluations, regulatory and financial analyses, and staffing and management reviews.**
- **Investigation and development of funding methodologies and financial analyses to assist in justifying recommended solutions. Assistance in identifying and obtaining grants in support of technology initiatives.**
- **Preparation of detailed specifications and procurement documents for data, voice, video networks, emergency communications centers, and emergency operations centers supporting a single building, campus, countywide, statewide or nationwide environment. Assistance in negotiating contracts and service level agreements favorable to our clients.**
- **Implementation support and installation oversight that insures that work is completed correctly, according to the specifications, on time and on budget.**



## Distinguishing Qualities

**A number of key qualities distinguish RCC from other consultancies. Among these are:**

**Industry Focus** - The vast majority of RCC's clients are healthcare, EMS, higher education, state, and local governments. Many of RCC's consultants and engineers, including our company president, once held important positions in public safety, as well as state and local government. Through on-going professional engagements, as well as the practical experience of consultants and engineers, members of RCC have an unparalleled understanding of government and the administrative requirements needed to complete engagements appropriately.

**Broad-based Experience** - Many of RCC's consultants and engineers travel throughout the United States in support of clients. Through exposure to many different issues in varied areas of the country, RCC's staff members face myriad issues and develop innovative and appropriate solutions to problems. Due to RCC's nationwide presence, the best practices developed for governmental entities from throughout the United States are shared with its clients.

**Professional Versatility** - Some consultant organizations only work in one area of technical competency. RCC's clients often engage the company to address a wide variety of challenges often exposing staff to myriad solutions. From a broad base of professional experience, RCC's consultants and engineers typically work with a variety of technologies often permitting staff members to identify multiple options for clients.

**Client Focused** - RCC recognizes that many clients and their projects are within the public domain and subject to public review and comment. As such, RCC's consultants and engineers work not only to address and solve problems, but also to complete engagements utilizing the most appropriate strategies for the client.

**Neutral and Independent** - RCC Consultants, Inc. is completely neutral, independent, and focused solely on providing best outcome services for our clients. While consultants and engineers participate in some industry learning programs sponsored by manufacturers and service providers, the involvement of RCC staff members is to learn about products and services on behalf of clients. RCC's number one and uncompromising focus is our clients.

