

Federal  
Solutions

COMMDEX

# Distributed Antenna Systems

## SYSTEM INTEGRATION SERVICES

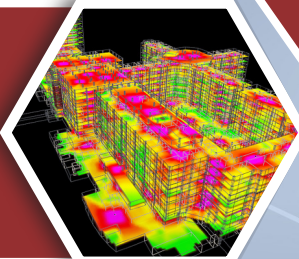
### 01. Planning

- Network coverage and capacity requirements gathering
- Existing network benchmarking
- Baseline Testing
- On-site baseline coverage analysis
- Capacity planning
- Technology and product selection
- Security needs analysis



### 02. Design

- In-building propagation analysis with iBwave
- Bandwidth and link budget analysis
- System layout and mapping
- Traffic engineering and analysis
- Interference studies and macro network analysis



### 03. Deployment

- End-to-end DAS installation
- R56 Compliant
- Full construction management
- Macro network optimization
- Head-end equipment installation and testing
- System optimization and acceptance testing



### 04. Maintenance

- Remote system monitoring, collection and reporting via SNMP
- System alerts via SMS or email
- On-site service calls
- Spares warehousing and RMA support



**Nationwide Experience:** Supported hundreds of mission critical systems in all 50 states

**Critical Communications Expertise:** Staffed with fully qualified engineers experienced and certified in the latest technology/tools

**Custom Solutions:** Multiple OEM Certifications to offer turnkey telecom solutions tailored to meet your needs

**Faster Implementation:** Proven processes ensure projects are completed on-time and on-budget



As a member of the Safer Buildings Coalition, we have access to the most current requirements being utilized across the country, as well as influence in new standards being developed to further the mission of reliable in-building communications for our emergency responders.



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## Past Performances



### URENCO - New Mexico

- Provided an active fiber DAS to provide radio coverage in four campus buildings.
- Performed extensive on-site RF analysis to design around complex equipment located throughout each building with no impact to coverage.
- Installed direct fiber connectivity back to primary radio tower site over one mile away
- Total fiber solution was used to maintain clearance of copper cabling from classified systems.

### Korea ODAS

- Designed, installed and commissioned 6 outdoor DAS solutions to provide coverage for US Army weapons ranges in South Korea
- Performed site surveys to determine proper donor azimuths, isolation requirements and potential interference sources
- Managed the ordering, delivery and installation of equipment to the ranges
- Performed full commissioning and testing to ensure proper operation and no adverse effects on the donor system



### USDA National Bio and Agro-Defense Facility

- Commdex developed a fiber-distributed DAS system to that provided coverage for the USDA NBAF that included over 7 buildings across the campus.
- An outdoor antenna network provided coverage to the other buildings on the campus away from the main lab building.
- The fiber DAS system provides UHF coverage connected to a on-site repeater system providing radio communications throughout the facility

### Oak Ridge National Lab

- Developed fiber DAS providing coverage to both public safety and commercial carrier within a 5 building complex
- Provided direct integration to the existing campus radio network
- Provided a Managed Access System to only allow approved devices to operate on the DAS system.
- Provided complete design, staging, testing and logistics for the complete project.



To engage with us for all your communications needs, contact us at [sales@commdex.com](mailto:sales@commdex.com)