



Enterprise Solutions

About Commdex:

CommDEX is an ISO-9001 and TL 9000 certified mission-critical communications system integrator with 20+ years of experience working on government systems in all 50 states. CommDEX is a company that is intimately familiar with the complexities of modern, leading-edge communication systems and how these systems can meet the needs of mission critical users. We possess in-house capabilities from needs analysis to system and design, system integration, implementation, and maintenance support paired with our certified quality processes. From our experienced staff with expertise to our disciplined processes, we bring a total solution to meet your needs.

Command/Control Centers

- Mobile and fixed network operations centers, including radio consoles, remote video surveillance systems and IP based radio gateways to provide connectivity to state and local communications networks.
- Solutions such as CAD, AVL, Video Analytics, NG-911, etc to provide dispatch personnel the analytical power to recognize trends, maximize effective deployment, manage operations and anticipate problems before they strike.



Microwave & Fiber Backhaul

- Network design of backhaul systems (fiber, microwave, point to point, point to multi-point, etc)
- Microwave engineering including path design, network reliability calculations, path surveys, capacity and throughput analysis, frequency coordination, and network optimization.
- IP/MPLS network engineering including IP planning, architecture design, bandwidth analysis, and ring protection.



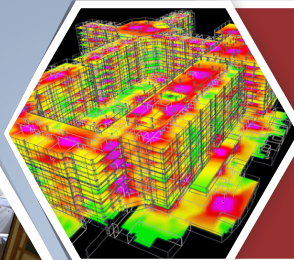
Wireless Communications Networks

- Planning, design, deployment and optimization of wireless communications networks (P25 Land Mobile Radio, 4G/5G, WLAN) including propagation modeling, interference studies
- Design/installation of in-building coverage and Distributed Antenna Systems (DAS) to provide enhanced coverage inside large buildings.
- New equipment evaluation, testing and selection - Equipment installation and optimization - Coverage and acceptance testing



In-building Wireless Solutions

- Network coverage and capacity requirements gathering
- In-building propagation analysis with iBwave
- End-to-end DAS installation & system optimization and acceptance testing
- Remote system monitoring, collection, and reporting



Infrastructure Buildout

- Site acquisition/Leasing/Zoning approvals
- Tower site surveys, structural analysis and design drawings.
- FAA/FCC/Environmental permits (NEPA)/Utility permits
- Tower/shelter/cabinet/antenna system install/testing
- Install/testing of electrical (UPS, DC power, generator) systems.
- Specialty solutions (solar, wind, and transportable sites)



Interoperability Planning & Fleetmapping

- Assess pertinent emergency response scenarios, and develop solutions that support interoperability and incident management. Linking disparate communications systems at the local and state levels.
- Manage fleetmapping process for consoles and subscribers to ensure that fleetmap is thorough and well thought out to allow expedient response to emergency situations.



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Past Performances



URENCO, New Mexico - Distributed Antenna System

- 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

PSEG, New Jersey - Fleetmapping

- Oversaw the development of 5 Master Codeplugs
- Setup and implemented Radio Management deployment of radio programming
- Provided radio programming supervision in the field
- Provided continuous fleetmap and codeplug development oversight for a period of 18 months



Exxon Mobil, Texas- Fleetmapping

Trusted consultant and developer for multiple EXOM sites:

- Baytown: Smartnet to P25 migration, six Master CPs, 45 Subordinate CPs
- Beaumont: Translate Baytown FM to Beaumont FM, build three Master CPs
- Billings: Consult on FM development, Build three Master CPs
- Corpus Christi: Develop site FM, Build 3 Master CPs, two Subordinate CPs

DOW Chemical, Texas - Distributed Antenna System

- Installed DAS systems in seven buildings spanning a 7-mile area around DOW headquarters.
- Installations included both office and lab buildings
- Provided complete turnkey design, installation, commissioning and testing of each building



To engage with us for all your communications needs, contact us at sales@commdex.com