

# END 2 END TECHNOLOGIES

*Industrial Wireless Automation,  
Integration and Management*



## Industrial Wireless Network Engineering Solutions

Wireless networks are transforming energy production, industrial plants, and manufacturing operations globally. This evolution from wired to wireless or from serial to IP networks in the Energy, Power Utilities, Water/Waste Water, and Transportation industries is primarily driven by the need to reduce costs, increase bandwidth, improve uptime, reduce power consumption, and improve workplace safety.

But wireless networks also require additional engineering and maintenance considerations, including radio frequency interference caused by terrain features or industrial equipment, security concerns that require special knowledge or equipment to maintain network integrity, as well as the ability to design wireless communication systems that can work equally well for legacy equipment and new technologies.

### The End 2 End Difference

Designing reliable wireless communication paths involves a variety of activities. At E2E Technologies we identify the best location for network nodes and tower sites based on a combination of computer modeling and field surveys. Our services include research into existing owned properties, sites for lease or purchase, and local requirements impacting RF builds. Wireless radio band options are chosen based on the desired link characteristics, required propagation, and frequencies available from the FCC. We conduct site surveys to determine frequencies currently in use, the existing noise floor, and potential sources of interference.



### CUSTOMER BENEFITS

E2E Technologies' customers have benefited from our solutions in numerous ways including:

- Reduced business impact from poor wireless communications
- Mitigation of wireless security risks
- Improved operational efficiency
- Lowered cost of modernization and maintenance



### ENGINEERING & PROCUREMENT SERVICES

Our industrial wireless network engineering and procurement services include:

- RF Feasibility Analysis
- Wireless Site Survey
- Frequency Planning and Licensing
- Wireless Network Assessment
- Wireless Network Design
- Wireless Site Design and Equipment Selection



## E2E SOLUTIONS

Our solutions cover the industrial wireless communications market end-to-end including:

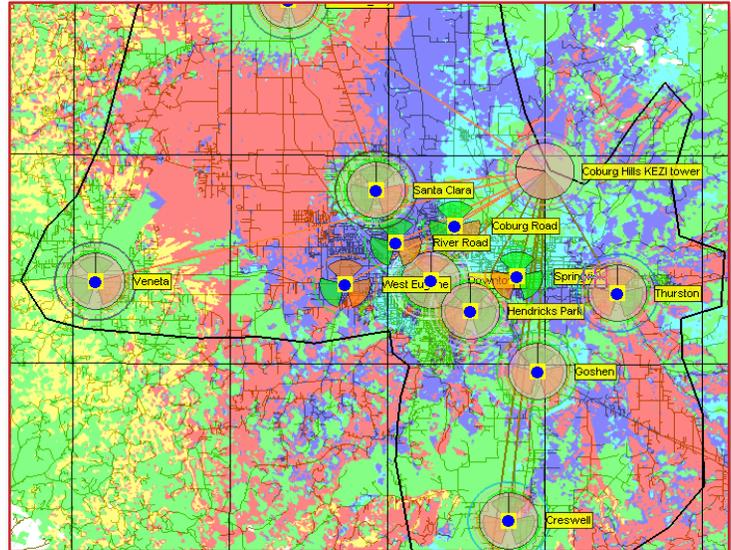
- Wireless Network Engineering
- Wireless Equipment, License and Structure Procurement
- Field-Area Network Deployment
- Field-Area Network Monitoring & Management
- Custom Software Development



## PRODUCTS

We offer a wide range of leading edge Industrial Communication solutions:

- Industrial Wireless Radios
- Antennas and Accessories
- Network & Remote Equipment Management Software



***Area study calculated with E2E Technologies' physical/deterministic propagation modeling tool.***

### **Go With an Experienced Staff For Your Next Project**

Based on over 100 years of combined industry experience and expertise, our professional services use the latest industry standards, equipment (GE MDS™ products) and best practices to produce world class industrial wireless communication systems. Let our industrial wireless network engineers work with you to design and build an efficient and cost-effective communication system.

**For more information call our experienced staff at (651) 560-0321 or visit our website at [www.e2etechinc.com](http://www.e2etechinc.com) for more details.**



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