



Breakthrough Communication Barriers

Services

Interference Mitigation

RF Propagation Analysis

Technology Testing
and Integration

Intermodulation Analysis

Network Architecture Design

Training and Support

Accelerate Your Network with Utiliworks

A key factor in enabling Smart Grid functionality is the appropriate application of network communications technology.

Utiliworks has expertise in fiber, wireless and network communications architecture, infrastructure, equipment, and applications. Our team can provide tailored network solutions, including integration of existing systems and migration to emerging technologies.

A variety of planning, design and optimization services include:

- Communication and data project management
- RF Network Design/Implementation
- LAN-WAN Wireless/ Wired Network engineering
- System Troubleshooting-Problem Analysis
- Vendor evaluations and multi-vendor oversight
- Wireless security assessments
- RF coverage analysis
- Topographic visualization and 3D modeling
- Data integration to your GIS and other systems

Expand Your Capabilities With Utiliworks

Existing Systems Performance

Utiliworks can evaluate the current functionality of your communications network to give you a better understanding of your current state and future needs.

Communications and Network Security

Many communications networks were installed at a time when the importance of wireless security was poorly understood. Utiliworks can help ensure your networks are secure.

Building Your Advantage Through Analysis

Propagation Analysis

Utiliworks experts offer in-depth studies to evaluate your communication and network data systems. These propagation analyses include: path studies, coverage studies and link budgets.

Traffic Analysis

Many communications systems are operating at or above their capacity. Utiliworks can analyze the performance of your network, provide optimization guidance, and determine if there is additional capacity for expansion.

Intermodulation Analysis

A properly designed communications system requires a clear understanding of the interrelationships between equipment at a communications site. Utiliworks can minimize the possibility of harmful interference to critical systems and perform a complete analysis for each site.

Designing a Smart Communication Solution

Utiliworks will strategically create a network designed to fit your utility's specific needs. Our personnel have expertise in:

SCADA Systems - Point-to-Point and Point-to-Multipoint radio systems.

Our team can assist you with single or multi-protocol support, MAS licensed networks, and unlicensed systems across all frequency bands.

Communications Backhaul - This includes Point-to-Point microwave links and fiber optic systems.

Hybrid Fiber/Radio/Telephony Systems - Creating a hybrid network of radio, microwave and fiber systems is the most efficient use of available services.

AMI/AMR Network Layout - Analysis of equipment performance, the RF environment in a community, and data connectivity demands, are critical before accepting a vendor or system for your project.

Communications Site Design - For a reliable system the backup power, environmental controls, grounding/ surge protection and redundancy considerations require evaluation.

Utiliworks Consulting is a professional services company that helps utility clients assess, design, procure and deploy advanced metering systems and smart grid technologies. Our processes, people and analysis tool, UW Insight™, will lower your utility's AMI and smart grid project risk while promoting positive developments. Build your utility's smart solution with Utiliworks.



UtiliWorks™

Building Smart Utility Solutions

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