



Michael Mazzitello Sr

**Project Manager – Infrastructure,
Communications Technology and
Interoperability Consultant –
Project Management**

Michael is a Federal Communications Commission (FCC) licensed and Northwestern Electronics Institute (NEI) trained radio communications specialist and technician with a 48-year history in radio communications. He has been involved in the successful design and implementation of interoperable radio systems ranging from small city-wide systems to large regional projects across the Midwest. Tasks included in this work history are system needs analysis, system report writing, project status timeline and project management tool usage (Gant, pert, milestone, and other project monitoring tools).

It is universally recognized that interoperability is the ability to communicate, as needed, on demand, and as authorized at all levels of government and across all Public Safety disciplines.

The need for communications interoperability is a significant public safety issue for citizens and emergency responders readily recognized by our local public safety officials.

As well as the need to interoperate within a state's borders with all cooperating agencies, all of these agencies need to have interoperation outside of borders normally served. From this vision the ARMER network was born and developed into what it is today. Michael has participated in this endeavor at many levels, by early member participation on the ARMER technical committee, to stakeholder representative in many local enhancements to ARMER.

To accomplish this mission the State of Minnesota created an initiative to develop a core network on which to build an interoperable system that would support the core need for the various State of Minnesota agencies, but would also foster the consideration of a cooperative mind set with in the many local agencies operating a varied and wide-ranging radio systems.

Michael has been for the last 22 years providing technical knowledge on legacy systems and providing inspiring ideas on how to leverage new emerging technologies. As will be noted deeper in this resume are examples of what projects Michael has been involved with that utilized project management, budgeting for project planning, budget control for implementations, and

| Professional Public Safety Consulting, with a personal touch.....

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Professional Experience

**Mazzitello Professional Services
LLC**

Spring Valley, Wisconsin 2011 – 2024
(Present)

- Communications Consultant-Owner, New Technology assessments, Interoperation Study and Implementations, Field Civil Work, Legacy System Analysis, System Design Development, Project Management-oversight

Federal Engineering

Fairfax, Virginia 2011 – 2013
(Present)

- Communications Consultant Contractor, New Technology assessments, Interoperation Study and Implementations, Field Civil Work, Legacy System Analysis, System Design Development, Project Management-oversight

On Target Training and Consulting

St. Cloud, Minnesota, 2012

- Interoperation Technology hardware and operations/procedures field educator to ARMER system participants

GeoComm

St. Cloud, Minnesota, 2001 - 2011

- Communications Consultant, Interoperation Study and Implementations, Field Civil Work, Legacy System Analysis, New Technology assessments, System Design Development, Project Management-oversight

personal “people skills” in the conveyance understandings of the pros and cons of projects, to technical and non-technical stakeholders alike.

Michael has presented many large groups such as Regional ARMER meetings and various client meetings. My references will attest to my willingness and ability to engage people at any level of prominence and position on essentially any topic. A quick rapport is developed with audience by preparation on the topic, the local culture/customs of various localities. This confidence in collaborating with people in a governing and resident has come from a past stint as a City Councilman in the City of Lake St. Croix Beach Minnesota

To offer clear and concise information to clients Michael has provided documentation in the form of substantial subject matter document reports that include system information in narrative forms. These reports and analysis can be quite large and detailed in order to provide the best information on had available for decision makers. Included in these reports are photographs of client’s system elements, narratives of the conditions found in the system investigations, and summary explanations of possible technologies to be considered. These technologies can be existing well established techniques. The latest and greatest developments in emerging technologies are also provided in an informative yet “easy to understand” presentation. Michael has provided many in person “Radio 101, Trunking 101, and other advanced training sessions to elected officials, department management, and everyday users of these systems. In addition to user community educational presentations, Michael has conducted “citizen” forums to convey to the general public and media the layperson version of this technical discussion.

Michael has attended many of the State of Minnesota’s ARMER open meetings, State Radio Board, ARMER State SMG, Metro SMG, Operations and Technical (State and Regional) as well as all of the various Regional Radio Boards across the State of Minnesota. At these various Regional Radio Board meetings, Michael has made presentations on the subjects of various Interoperation system designs and plans, and has participated in presentations before these various boards and committees in normal dialog for the benefit of clients and the ARMER project community.

Michael has been a yearly participant in the Minnesota Public Safety Interoperable Communications Conferences on a yearly basis.

Michael is a member of the NPSTC volunteer committees, one charged with work related to the definition of “mission critical operations/public safety grade of service, and the second looking at how LTE and Broadband will change the way of the current dispatch consoles at PSAP’s.

As a long time public safety consultant, Michael is well known throughout the State of Minnesota for his participation in regional radio boards throughout the state, his involvement with the Department of Electronic

IBM

Minneapolis, Minnesota 2000 - 2001

- Wireless Network System Engineer, Project Management, Land Mobile Radio Systems- wireless networks Nuclear Power Plant wireless systems, SCADA, Microwave

Northern States Power Company/Xcel Energy Minneapolis Minnesota ,

Minneapolis, Minnesota 1987 - 2000

- Wireless Network System Engineer, Interoperation Study and Implementations, Project Management, Land Mobile Radio Systems- wireless networks Nuclear Power Plant wireless systems, SCADA, Microwave

Motorola Communications & Electronics

St. Paul, Minnesota 1982 - 1987

- Lead Systems Field Systems Technologist Project Management, and Technician -, Public Safety and Utility Land Mobile Radio Systems- wireless networks, SCADA, Microwave

Soo Line Railroad

Minneapolis, Minnesota 1987

- Radio Technician and Field Engineer

Capitol Electronics

St. Paul, Minnesota 1976 - 1981

- Project Management, Systems Installer--, Public Safety and Utility Land Mobile Radio Systems- wireless networks

Education

Northwestern Electronics Institute

Minneapolis, Minnesota

- A.A. Electronics Degree

Motorola /Vendor Technical Training Programs

- Trunking System

Communications, and for his contributions in the state's Allied Radio Matrix for Emergency Response (ARMER) program, where he provided consulting services for the state's 800 MHz Interoperable Statewide build-out. Michael's ARMER experience includes representing individual counties at the Metro Emergency Services Board and the Minnesota State Radio Board Operations and Technical Committee for their possible inclusion into ARMER's program.

Michael's project success is attributed to his knowledge of public safety radio systems and Utility Industry systems. His involvement in past public safety projects ranges from analyzing existing radio communication networks in various states of their life cycles, to providing upgrade or system replacement recommendations, and by facilitating procurement and installation consulting for the radio communication systems. His experience includes planning efforts for the Mid-American Regional Council (MARC) eight-county region, and installing and optimizing Minnesota's first Motorola CentraCom II CRT Radio Dispatch Console System. Michael was also heavily involved in the Kansas City areas Regional Area Multi-Band Integrated System (RAMBIS) system design and RFP creation.

In all of Michael's work efforts a key component to success was emphasis on interoperability between agencies and departments of any given enterprise, and the development of substantive operational interoperability procedures. Along with developing and leveraging a sound technical background in wireless communications a huge part of the job in all of my endeavors has always been designed around operational side of any project.

In his many projects in Minnesota, Wisconsin, Iowa, Illinois, Nebraska, assessments, and recommendations for technology improvements and plans were always tempered substantive need to make sure that the technology served the people, and not the people being subservient to the technology.

Michael's experience in consulting and public safety includes:

- Land mobile communications systems and equipment
- Interoperation Gateway development in trunked and conventional systems – Planning, implementation, training,
- Conventional and trunked radio system design and implementation of VHF (155 MHz), UHF (450 MHz), and 700/800 MHz
- Microwave point-to-point to multipoint microwave networks
- Experienced in the design and implementation of systems for area and countywide public safety applications including:
 - Wide area voice radio coverage and propagation
 - Wide area specialized volunteer fire paging systems

- CentraComm Consoles
- Microwave Products
- Harris Microwave
- Alcatel Microwave

Technical Experience

- 700/800 MHz Trunked Systems Digital/Analog
- *RFQ/RFP/RFQ Development
*Implementation of RFP/RFQ bid projects
- VHF and UHF Conventional Radio Systems –Simulcast and non-simulcast Digital and Analog
- Frequency Research and Acquisition
- FCC License facilitation
- Rebanding for 800 MHz
- Mobile Data Systems
- Computer Aided Dispatch
- Records Management Systems
- Wireless Communications
- E9-1-1 Implementation
- PSAP Consolidations
- Conventional and Trunked Radio Systems
- APCO Project 25 Digital Systems design, project management, civil installation coordination
- Radio Paging Analog, Digital Simulcast
- Interoperable Two-way Radio Systems coordination
- Microwave Radio Systems and Network Design
- Harris Microwave Trained
- Alcatel Microwave Trained
- Nortel Microwave Trained

Memberships and Certifications

- APCO
- FCC License PG1612516
- Amateur Call N0WHP

Clearances

- Maintained a security clearance for nuclear power plants in Minnesota

- Radio control console systems design and implementation
- Multi-jurisdictional dispatch operations and personnel management
- Interoperation standard operational procedure development
- Analysis and implementation of state-of-the-art land mobile communications legacy based, new technologies, and products and services
- Emergency communications dispatch volunteer in the Ramsey and Washington County, Minnesota Emergency Preparedness operations
- Business continuation/disaster recovery applications
- Site analysis, tower site assessments related to structures, shelters, civil work determinations

Utility Market

- Northern States Power Company, Minnesota, Wisconsin, North Dakota, South Dakota
 - Trunked Radio System Implementation Twin Cities
 - Trunked Radio System Implementation- Prairie Island Nuclear Plant
 - Trunked Radio System Implementation-Monticello Nuclear Plant-Sherco Coal Plant
 - Conventional VHF, UHF Land Mobile
 - Subscriber unit programming
 - Analog and Digital Microwave Implementations
 - SCADA, Wireless Power Distribution systems Transmission, Distribution Automation, Meter Reading
 - Trunked System Management

Past involvement in the Utility Industry- Motorola Trunked Users Group Executive Committees

Specialty in site development, communications tower/shelter procurement and implementations – ALL Markets -

Professional and Civic Societies

- Past elected office City of Lake St. Croix Beach Minnesota
- Past Technical officer Ramsey County Emergency Services
- Past member Washington County Minnesota Emergency Services
- NPSTC Volunteer committees

Software Proficiencies

- Microsoft Word
- Microsoft Excel
- Microsoft Visio
- Radio Soft Signal Propagation study tools
- FCC ULS
- CAPRAD Coordination Software
- FAA Study tools

Highlighted Large, Most Recent Projects

Saunders County Nebraska 2022-2025 Current Project– Michael is co-consultant and tower site project manager in the roll-out of a new P25 Public Safety Radio Network in the county of Saunders, part of the larger-bistate system of “ORION”. This network provided public safety communications in the eastern part of Nebraska, specifically the wide range of counties surrounding Omaha Nebraska, into Iowa. Specifically, work activities include interactions with County elected officials, Regional participants in the Motorola system, develop planning for new tower sites, conduct assessments of existing tower site facilities, and procurement solicitations out to the tower/shelter community of vendors.

Crawford County Iowa 2021-2024 – Current Project - Michael participated in the Site-Civil portion of the radio project this county was moving forward with. The technology was from Harris, through the large Iowa based vendor RACOM. Crawford county retained our RFCC/MPS collaboration of consultants, to assist in land procurement, Tower procurement, shelter procurement, and project management of the overall site development.

Mahaska County Iowa 2020-2024 - Michael participated in the Site-Civil portion of the radio project this county was moving forward with. The technology was from Harris, through the large Iowa based vendor RACOM. Mahaska county retained our RFCC/MPS collaboration of consultants, to assist in land procurement, Tower procurement, shelter procurement, and project management of the overall site development. Michael has been retained as an ongoing project consultant for issues that arise over time.

Dallas County Iowa - Michael was the named principal consultant for this county, a full replacement of the existing radio communications system. The technology selected by the county was the State-Wide P25 Motorola Trunked network. MPS/Mike Mazzitello participated in the technology selection and site-civil portion of the radio project this county was moving forward with. The technology was from Motorola, Mahaska county retained our MPS collaboration of consultants, to assist in land procurement, tower procurement, shelter procurement, and project management of the overall site development. Michael has been retained as an ongoing project consultant for issues that arise over time.

Lake County Indiana – Michael is providing lead consulting activities for this fast-paced project. The County is under pressure to combine 17 different PSAP locations into one centralized PSAP location. The new PSAP does not exist, but is being developed inside the County Administration Building, a rather large remodeling project. We are working with WOLD architects to develop this location. Aside from the PSAP, the project calls for a completely new P25 radio systems. The current agencies all use disparate radio systems in UHF, VHF, and 800 analog systems. I developed the RFP for the radio system part of the project, calling for a new 700 MHz TDMA system. The various vendors all have looked at this project for the last 5 years as a “must have” project in their own view. The vendors that responded, Cassidian, EF Johnson, Harris and Motorola all were involved, fighting tooth and nail for the winning position. Through many tough political engagements between vendors, and the County/City elected officials we have come to the point where a fair and honest project selection process was completed. Continued activities include management services to the County to orchestrate Detailed Design Reviews of the vendor. On the ground civil work development of the 700 MHz simulcast system (several new monopoles, and several tower upgrades/water tank installations), and Interop/fire siren/mutual aid subsystems are now coming to reality. Michael is monitoring the ongoing budget for services and for materials as the project rolls out to an expected conclusion in late 2014/2015. This system is a Motorola P25 Phase 2-TDMA Simulcast trunked radio system. This system is expected to support approximately 4,500 subscriber radios. Michael has conducted monthly project meetings with the vendor, facilitating meetings in the County with vendor and client committee members. Providing project management for ground-civil work supervision of the prime contractor in site development, and assisting the client with technical support in the project general activities is a high priority. Provided ongoing project management and technical supervision of installation at remote sites and central dispatch of critical backbone infrastructure equipment. Performing system check out coordination with vendor Motorola. Performing system Acceptance Testing, Functional Acceptance testing, Coverage Testing (RF Signal penetration and saturation).

This project has an extremely aggressive timeline, with the necessary completion of ALL activities and a turn up date of the end of the year 2014. This project has had several false starts, with the previous project effort costing the County half million dollars with a different consultant, and no system was ever built. In this latest effort, our involvement started August 2013, and we in the several months that followed developed the RFP, gained consensus in the County for the proper technology and budget expectations, sought and received solid vendor participation, and have selected and initiated procurement processed...in less than 6 month. We are so far on track and way under expected budget.

Dane County Wisconsin – Michael provided project management services and on the ground civil work development of the VHF multi-site simulcasts system. Michael is monitoring the ongoing budget for services and for materials as the project rolls out to an expected conclusion in late 2013. This system is a Harris P25 trunked radio system. This system is expected to support approximately 2,500 subscriber radios. Michael has conducted monthly project meetings with the vendor, facilitating meetings in the County of Dane with vendor and client committee members. Providing project management for ground-civil work supervision of the prime contractor in site development, and assisting the client with technical support in the project general activities is a high priority. Provided ongoing project management and technical supervision of installation at remote sites and central dispatch of critical backbone infrastructure equipment. Performing system check out coordination with vendor Harris. Performing system Acceptance Testing, Functional Acceptance testing, Coverage Testing (RF Signal penetration and saturation).

Brown County- Green Bay Wisconsin – Brown county embarked on a P25 project as a part of the narrow banding mandate from the FCC. To facilitate better interoperation between internal agencies and neighboring entities Trunked radio over conventional radio was selected. Michael conducted many on-site internal stakeholder meetings and seminars to foster a better understanding to the various participating agencies on the topic of interoperation using new technology. The old radio system was a long-time collection of older technologies that while operating in a common analog mode, had little thought to interoperation between agencies. The legacy systems were composed of single “islands” of simplex and/or repeated systems. Little to no consideration was given to interface to other agencies other than typical mutual aid frequencies. As a part of the project Michael introduced concepts and procedures that would drive the search for and the application of new technological solutions to foster a new mind set for interoperation between agencies. These meetings consisted of long-time users well rooted in how communications were done in the past. Taking look at new technologies was not necessarily accepted at first, but as the project progressed, presentations before local elected officials, local agency chiefs, and finally presentations for the line firefighters and law enforcement officials brought a common understanding from which the project progressed. The Standard of P25 was chosen using 700 or 800 MHz as the best frequency band. In this project Michael was assigned the preliminary design task, developing the layout of the sites based on coverage requirements and interconnect technology specifications and project management of the overall rollout of the system. Michael performed detailed site analysis, tower site assessments related to structures, shelters, civil work determinations, and other pertinent site details.

City of Council Bluffs and Pottawattamie County, Iowa – In the creation of the Omaha Regional Interoperability project, Michael provided project management and procurement management services to the City of Council Bluffs and Pottawattamie County. Michael conducted initial technology

reviews of the latest available technologies for public safety at the request of the County Board of Supervisors. After review and presentations on this subject and subsequent follow up with the County Board and stakeholders, the decision was made to move forward with the acquisition of a 10-channel, 7-site, and P25 trunked radio system. The system included 1,000 plus subscriber radios initially and high-speed data option (HPD), MOSCAD monitoring, two MCC7500 console installations and the provision of a 150 Mbit 8-site IP based microwave network. Michael assisted the client in preparing a competitive RFP for the total acquisition of the proposed radio system elements including three new tower sites and interaction with five-site owners for lease locations. As a part of the project management of this project Michael developed project budgets for the radio technology, site development, and final close out of the budget with reports on the varied services and processes. Michael performed detailed site analysis, tower site assessments related to structures, shelters, civil work determinations, and other pertinent site details. Provided ongoing project management and technical supervision of installation at remote sites and central dispatch of critical backbone infrastructure equipment. Performing system check out coordination with vendor Harris. Performing system Acceptance Testing, Functional Acceptance testing, Coverage Testing (RF Signal penetration and saturation).

Wright County-Sherburne County Minnesota – Wright County and Sherburne County Minnesota each had radio communications systems that were nearing end of life. These two counties embarked on a common project to determine available technologies available for application to their public safety agency populations. As a part of this project a review of available current technologies was conducted, spearheaded by Michael for presentation to the clients, Wright and Sherburne County's. Michael provided project management, vendor selection activities, developed budgets for each county's part of this project, provided client presentations of project progress and reported outcomes as needed to the county elected officials, and provided on site work direction and necessary project management services. This coordination included office work and on the ground civil work development of the ARMER multi-site simulcasts system that was selected. This system is a Motorola 800 MHz P25 trunked radio system. This system supports approximately 2,500 subscriber radios. Michael provided system design consultation in a cooperative effort with Sherburne County, and the ARMER technical staff in MnDOT. He assisted the client in the development of the implementation plan, subscriber selection, talk group fleet development, interoperability with near and distant public safety agencies, and general assistance to the implementation project manager in Motorola and Wright County. Provided ongoing project management and technical supervision of installation at remote sites and central dispatch of critical backbone infrastructure equipment. Performing system check out coordination with vendor Harris. Performing system Acceptance Testing, Functional Acceptance testing, Coverage Testing (RF Signal penetration and saturation).

City of St. Cloud Minnesota – Michael provided project Turn-Key project management services over the design and implementation of the prominent City of St. Cloud expansion of the Minnesota ARMER system. This was the first big implementation of the ARMER system outside of the Metro Twin Cities. Michael provided vendor selection activities, developed budgets for and managed ongoing project budget monitoring for the City, provided client presentations of project progress and reported outcomes as needed to the county elected officials, and provided on site work direction and necessary project management services.

In the search for interoperability with an important internal to the City department, Michael brought into this project interface plans for the connection to the local school district gateways and interconnections to the local large school district. In this same vein Michael provided planning for the development of the interface of the City School district/City fiber optic system with new licensed and unlicensed microwave links. The development of the new City water tank to be the prime site location called in the need of such structures, building codes, and foresight for expandable communications facilities and structures.

This system started out as a single site analog, and morphed into a three-site digital P25 system going from 5 channels to 10 channels. This system set the pace for the rollout of the Stearns County system, and other local counties. Provided ongoing project management and technical supervision of installation at remote sites and central dispatch of critical backbone infrastructure equipment. Performing system check out coordination with vendor Harris. Performing system Acceptance Testing, Functional Acceptance testing, Coverage Testing (RF Signal penetration and saturation).

Anoka County, Minnesota – Anoka County is a Twin Cities Metro county of 300,000 residences. The county needed to expand their radio system coverage and develop a participation plan for their involvement with the ARMER network expansion. Michael's project management services aided in expanding Anoka County into the state's local subnet of the basic ARMER system. He oversaw the build-out of the ARMER subnet upgrade, the acquisition of microwave and console systems, and new VHF simulcast fire paging. To complete the project, Michael facilitated negotiations for the addition to the existing P25 region wide trunked radio system from Motorola. Provided ongoing project management and technical supervision of installation at remote sites and central dispatch of critical backbone infrastructure equipment. Performing system check out coordination with vendor Harris. Performing system Acceptance Testing, Functional Acceptance testing, Coverage Testing (RF Signal penetration and saturation).

Stearns County, Minnesota- As a part of the development of the St. Cloud ARMER expansion, Michael provided base line support of the inclusion of components of the Stearns County enhancement to ARMER/St. Cloud subnet. This was seen as a logical interoperability function that needed to be considered in the spirit of the State of Minnesota ARMER system. Included in this expansion was the effort to dovetail the dispatch PSAP consoles in such a manner that the consoles operated in tandem with the City of St. Cloud, yet retained the necessary separate subsystem configuration.

The original ARMER radio subnet development for Stearns County did not include any VHF paging system upgrade to narrow band. This was a separate project that Michael was contracted with to design, manage the RFP processes with the County Purchasing Department, and to oversee the implementation. Included in this separate project was the design and provision of and by vendors of several microwave links, replacing outdated path equipment. Michael provided project management, budgetary development with the County IT manager, managed the work activities of the local vendor for the system(s) selected, and reported the final outcomes of testing and budget. Provided ongoing project management and technical supervision of installation at remote sites and central dispatch of critical backbone infrastructure equipment. Performing system check out coordination with vendor Harris. Performing system Acceptance Testing, Functional Acceptance testing, Coverage Testing (RF Signal penetration and saturation).

City of Omaha and Douglas County, Nebraska – In creating the Omaha Regional Interoperability project, Michael provided project management services to Douglas County and the City of Omaha throughout the acquisition of their 20-channel, 7-site, NSPAC (821 MHz), P25 trunked radio system. The system included 2,500 subscriber radios and high-speed data option, plus MOSCAD monitoring. Michael prepared a competitive RFP for the total acquisition of the proposed radio system. Provided ongoing project management and technical supervision of installation at remote sites and central dispatch of critical backbone infrastructure equipment. Performing system check out coordination with vendor Harris. Performing system Acceptance Testing, Functional Acceptance testing, Coverage Testing (RF Signal penetration and saturation).

Washington County, Nebraska – In 2003, GeoComm conducted a Needs Assessment and Options Analysis for Washington County. In follow-up to our previous recommendations, Michael provided the county with implementation services for the build-out of, and merger with, the City of Omaha and Douglas County P25 trunked radio system, and the system serving 14 counties in eastern Nebraska. GeoComm also assisted the county in applying for and receiving a USDHS grant for the construction of the three-site, five-channel addition. *Motorola ASTRO*

St. Clair County, Illinois -The P25 Digital trunked radio system project was a bellwether for the next generation of communications in Illinois. Michael was lead technical design engineer/consultant with support for the project manager for the scope of the project and for the development of the RFP specifications. This system that was installed was a state-of-the-art 700/800 Megahertz (MHz) digital trunked radio system. It included ten tower sites located throughout the county. The initial infrastructure was designed to support approximately 500 end-users with the potential to accommodate up to 1600 end-users and likely more as the system proved its capabilities. . The purpose of this system is to allow for effective interoperable communications between county employees both within and between departments. The system will allow for radio communications with the Illinois State Police as well as any other state or local entity that is part of the [STARCOM21](#) system. Provided ongoing project management and technical supervision of installation at remote sites and central dispatch of critical backbone infrastructure equipment. Performing system check out coordination with vendor Harris. Performing system Acceptance Testing, Functional Acceptance testing, Coverage Testing (RF Signal penetration and saturation). *Motorola ASTRO*

- ARMER Local Enhancement Study, Minnesota: May 2006
Regional Public Safety Radio and Communications Systems Implementation Planning for Interoperable communications
- Lac Qui Parle County, Minnesota: July 2010
ARMER Participation Plan development and system design for Interoperable communications
- Dodge County, Minnesota: April 2010
ARMER Participation Plan Development and System Design for Interoperable communications
- Nobles County, Minnesota: April 2010
ARMER Participation Plan Development and System Design for Interoperable communications
- Wright County, Minnesota: February 2010
ARMER Implementation Project Management and System Design for Interoperable communications
- Wright and Sherburne Counties, Minnesota: December 2009
800MHz Interoperable Radio Study and System Design

- Central Minnesota Regional Advisory Committee, Minnesota: July 2009
Radio Communications Project- Loading and System capacity study for Interoperable communications
- Minnesota Department of Public Safety, Minnesota: June 2009
Communication Asset Survey and Management Data Collection for Interoperable communications
- Pottawattamie County, Iowa Subnet:
Radio System Subnet Development, System Design, and Project Management Implementation for Interoperable communications
- Brown County Green Bay Wisconsin P25 Radio Project design and project management support for Interoperable communications
- FoxComm – Wisconsin P25 Radio Project, system technology design and determination for implementation per customer requirements and needs assessment for Interoperable communications
- Scott County and Scott Emergency Communications Center, Iowa: July 2010
Project Management Radio Tower Procurement and Implementation Consulting
- Rock County, Wisconsin: February 2009
Countywide Interoperable Communications Study
- Franklin County, Missouri: Summer 2008
PSAP Consolidation Study and Overall Organizational and Technology System Planning and System Design for Interoperable communications
- St. Clair County, Illinois: November 2007
800MHz Reconfiguration Project Management: Grant Management, Assistance, Re-banding, etc. and System Design for Interoperable communications
- Washington County, Nebraska Subnet: August 2006
Needs Assessment and Options Analysis and system design for Interoperable communications
- Mid-America Regional Council, Missouri: May 2006
Interoperable Radio Feasibility Study for Interoperable communications across 3 different radio bands
- City of St. Joseph and Buchanan County, Missouri: March 2006
P25 Digital Trunked Radio System Implementation

Most Recent Reference Contacts:

- **REFERENCE: Terry McClannahan – Dallas County Iowa 911,**
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- **REFERENCE: Mark Groenendyk – County Board Chair, Mahaska County Iowa**
641-673-3469 groenendyk@mahaskacountyia.gov
- **REFERENCE: Sgt. Kyle Markus – Clinton County Illinois, PSAP/Dispatch Deputy**
618-594-4555 kyle.markus@clintonco.illinois.gov
- **REFERENCE: Brian Hitchcock – Webster County Iowa 911,**
931-624-6028 secc7675@yahoo.com
- **REFERENCE: Bob Missel – County Board Chair, Dodge County Nebraska**
402-317-7832 bmissel@didgecountyne.gov