

RADIO IP MTG™
CONNECTIONWARE
FOR WIRELESS
NETWORKS

make the connection



RADIO IP SOFTWARE

Radio IP MTG™ is the connection-ware solution that brings your critical Public Safety wireless data communications to a higher level of security, reliability, integrity and user capacity. But it is not always easy – seamless mobile integration is often restricted by the multitude of incompatible technologies and protocols: private and public networks, diverse devices and a host of field-based and corporate applications.

Radio IP MTG connectionware solves this state of disharmony by introducing true interoperability amongst all these disparate mobile assets, all the while maintaining essential communications reliability, security and speed.



Eliminate gaps in security

“Always On” reliability

Roam diverse private & public networks

Improve existing network performance

MAKE THE CONNECTION

SEAMLESSLY INTEGRATE YOUR MOBILE WORKFORCE



The Radio IP MTG client-server based virtual network card provides wireless network communications solutions for public and private wireless data networks, alone or in combination.

Radio IP MTG is a software solution that looks like hardware to your network. No application modifications are needed. LAN, WAN, Intranet, Internet, mainframe, AS400 or any off-the-shelf product work immediately. Radio IP MTG is easy to install and seamless to the mobile officers. It simply gets them the critical data they need, when they need it without concern for incompatible technologies.

By supporting all public and private networks, mobile officers have access to communications regardless of their location. We integrate satellite to private networks, or public networks to 802.11 hotspots. Mobile units will avoid downtime due to coverage lapses.

Increase Officer Productivity by:

- Secure transmission of citizen data
- Reliable availability regardless of patrol location or network coverage
- Increasing speed of existing network
- Adding more mobiles by optimized throughput

HERE'S A SAMPLING OF SUPPORTED NETWORKS:

PRIVATE WIRELESS NETWORKS:

- Motorola DataTAC
- Motorola ASTRO 25
- Motorola ASTRO HPD
- Motorola MOTOMesh
- L-3 NovaRoam
- M/A-COM EDACS
- M/A-COM OpenSky
- Dataradio Inc.
- ESTeem Wireless
- GE Microwave Data Systems (MDS)
- IP MobileNet
- Mobitex Networks
- Tait Radio Communications
- Terrestrial Trunked Radio (TETRA)
- IEEE 802.11 WiFi
- IEEE 802.11 Mesh
- IEEE 802.16e WiMAX

CELLULAR/SATELLITE:

- GSM 2G (GPRS/EDGE)
- GSM 3G (UMTS/HSDPA)
- CDMA 3G (1xRTT/EVDO)
- Motorola iDEN/WIDEN
- MSV Satellite

OPTIMIZE COMMUNICATIONS

Fast, reliable communications are essential to a public safety department's mission. Whether an officer is issuing citations, supporting victims or pursuing criminals, speed and quality of information is key. Radio IP MTG keeps your personnel connected by optimizing and integrating your current communications investment while providing a clear migration path to the next generation of technology.

Ensure the reliability, speed and security of your wireless data transmissions. Give your public service workforce the communication tools they need to protect the citizens and themselves! With Radio IP MTG, troopers, firefighters, EMS workers or other mobile officers get up-to-date information when they are on the road.

WIRELESS SECURITY

Even at a routine traffic stop, important driver license and vehicle registration information is transmitted over a wireless network. The Radio IP Mobile VPN ensures this data is secure. In fact, it meets and exceeds state and federal (FBI/CJIS) encryption mandates for public safety organizations. Additionally, the entire mobile fleet experiences the robust security of a virtual private network

through user authentication, data encryption and encapsulation. Be confident that private citizen data, criminal history or medical records are safe and secure.

Ensure the identity of your officers with multiple levels of advanced authentication

Our Mobile VPN ensures positive identification of troopers accessing the network through multiple levels of advanced

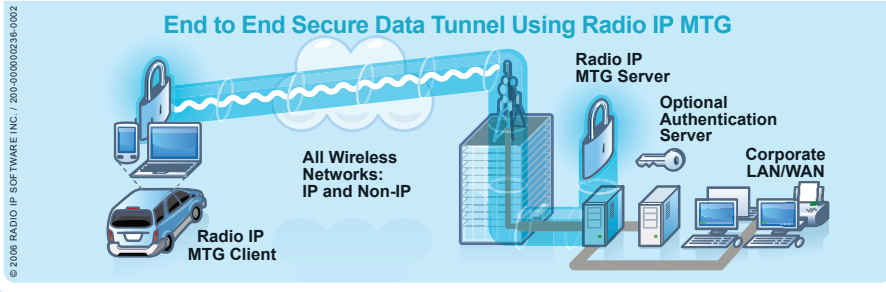
authentication. In addition to standard username-password authentication, Radio IP MTG provides secure, two-factor authentication for additional layers of security. Optional certificate authentication further validates your devices and protects your system from intrusions.

By using static IP addresses, Radio IP MTG lets you switch networks without having to re-authenticate, fulfilling the requirements for querying many secure law enforcement databases.

Ensure your data is transmitted securely with high level encryption

Since a public safety department's wireless network signals are broadcast and can be intercepted, we offer the highest encryption standards assuring all data is transferred securely between the officer and dispatch. Your data will be encrypted with either AES (256-bit) or Triple DES (168-bit) methodologies, using FIPS 140-2 certified technology.

Mobile VPN



“(Radio IP) Mobile TCP/IP Gateway has given us a larger network coverage area. Areas where we would lose coverage before, now maintain communication.”

Rodney Spell, Network Engineer- North Carolina State Highway Patrol



“We intend to integrate additional networks in the near future such as HPD (High Performance Data) and MESH. Radio IP Software makes this all possible by providing us with a migration path towards a four-way roaming solution.”

Daniel Revis, Wireless Program Manager of Communications Technology -Broward Sheriff's Office



“ALWAYS ON” RELIABILITY

Staying connected on a wireless network can be challenging. Radio IP MTG provides you with continuous wireless connectivity – giving you the ability to add multiple users to your network without bottlenecks, without time-outs, without re-tries and without network collapse.

Say goodbye to connection frustration with Automatic Network Reconnect

When pursuing a suspect in a vehicle, a police officer does not choose the topography of the pursuit. Troopers often encounter frequent signal interruption caused by geography, physical obstacles like tunnels and buildings and the distance of a mobile computing device from a transmission tower.

These signal interruptions and dropped connections can result in lost productivity and frustration as officers must reconnect to the network manually, keeping them from focusing on their job.

Radio IP MTG ensures continuous connectivity by automatically and seamlessly reconnecting your mobile devices to your network when signal interruptions occur.

Keep your applications running fast and smoothly, even during coverage gaps with Application & Session Persistence

Some public safety applications will shut down if they lose their network connectivity. But Radio IP MTG maintains an open socket connection to the network,

giving you session persistence and keeping your application running smoothly and continuously.

We guarantee data delivery

If a dispatched police vehicle wanders into an area of poor network coverage, application data will be accumulated, or buffered, until the vehicle returns to a viable network connection where data transmission can seamlessly resume. With data buffering, mobile patrols traveling through fringe areas benefit from expanded network coverage.

ROAM OVER DIVERSE NETWORKS

Many public safety organizations take advantage of existing high-speed public communications networks or 802.11 hotspots, either to leverage the faster speeds of these systems or to serve as back-up to their primary network. Because troopers may at times venture out of their primary network's coverage area, RadioRoam® lets them automatically roam, seamlessly and efficiently,

between an unlimited number of disparate wireless networks without losing their connection to dispatch.

RadioRoam Supported Network Types:

- Private Networks
- Public Cellular Networks
- 802.11 Hotspots
- Satellite
- and more...

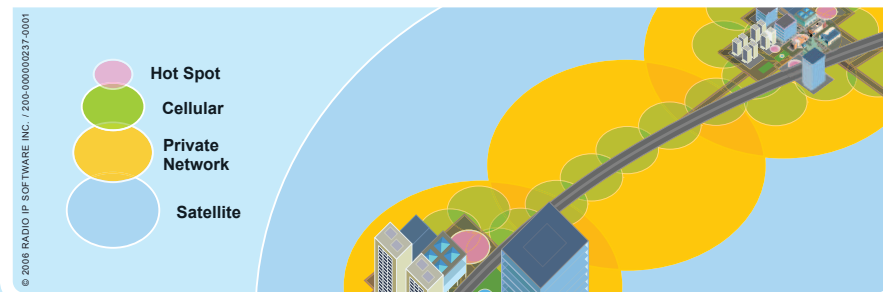
Maintain security while roaming

Even while roaming among diverse wireless networks, all your transmitted data remains secure with RadioRoam. Plus, you get Mobile VPN persistence, which ensures that your virtual private network connection always has the authentication, encryption and encapsulation needed for secure data transmission.

Make sure your officers are using the best available network at all times

User-defined roaming criteria enable a public safety department's IT administrator or communications manager to load one communications network more heavily than another based on factors such as application need, time of day, priority or cost of access.

Network Roaming



“ The selection of Radio IP products will assist Palmetto 800 in achieving our goal of supporting a full range of user needs at the highest level of interoperability available – for day to day operations, as well as for mutual aid and task force interoperability. By deploying Radio IP MTG... we can achieve this level of interoperability, which is particularly valuable in disaster situations when multiple agencies from a range of jurisdictions are involved. ”

Jim Weih, Palmetto 800 System Manager- Motorola

IMPROVE NETWORK PERFORMANCE

Radio IP MTG increases the throughput and performance of your wireless network by applying multiple optimization methods. The approach can typically double or triple the throughput and performance of many wireless networks. What this means is faster response times in critical situations and capacity enhancements by giving you the ability to add more mobile users on the system. Radio IP Software's patented technology is more efficient for wireless applications compared to the standard TCP/IP or UDP/IP protocols.

Supercharge your wireless networks with our patented Optimized TCP/IP protocol

Radio IP MTG transforms the performance of your wireless networks by introducing data compression and reducing data

overhead. Our Optimized TCP/IP compression drastically reduces the amount of data transmitted, thereby significantly improving file transfer time to ensure an efficient use of the wireless pipe. Optimized TCP/IP removes the “chattiness” associated with standard

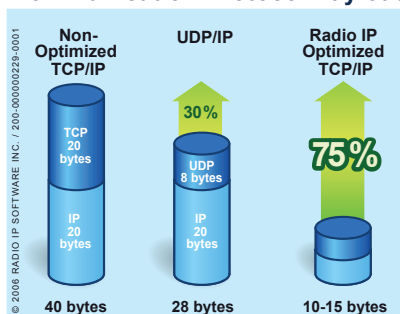
TCP/IP and reduces TCP/IP packet size by 75%.

A Clear Technology Roadmap

Technology will continue to evolve whether for dispatch applications, in-vehicle devices, networks or GPS-based handhelds. In addition, with the introduction of Homeland Security requirements, satisfying state and federal public safety technology standards is mandatory.

With change being inevitable as technology advances, the interoperability introduced by Radio IP MTG protects your investments and ensures your migration to new technologies will be seamless and painless. The result eliminates downtime and reduces the risk of new technology integration.

Communication Protocol Payload



NETWORK MANAGEMENT TOOLS

Radio IP Software is the industry expert on wireless interoperability. As the connectionware between diverse networks, applications and technologies, we have a thorough understanding of the challenges and opportunities in creating a seamless, interoperable environment.

To assist network administrators, we have developed tools to help them more effectively manage and control how their networks perform.

Control your application data for tailored wireless routing

The Forward and Filtering feature of Radio IP MTG allows network administrators to tailor their wireless routing within a public safety department's network. Administrators can determine over which networks and under which conditions an application may transmit

data for unprecedented control. For example, software updates for specific applications could be restricted from transmitting over a public safety department's private network to prevent overloading.

Simplified control and central management of your fleet of IP addresses

Mobile DHCP simplifies the network administration of a public safety department's fleet of IP addresses by automatically issuing static IP addresses. Without Mobile DHCP, all IP addresses in the field equipment (e.g. laptops) would need to be set manually, a labor-intensive process for the department network administrators.

In addition, Radio IP Mobile DHCP has optimized the standard by removing the "chattiness" associated with the DHCP

protocol on wireless networks, therefore gaining all the benefits of DHCP network management without impacting a network's throughput.

Keep your wireless network alive

Radio IP MTG also uses the Microsoft® Cluster Service to provide a hot standby redundancy solution for mission-critical public safety applications. Should Radio IP MTG stop working on a public safety department's particular server, or if the server is intentionally brought offline, the communications workload is shifted automatically to another server for continuous service to and from the field.



“ Radio IP Software allows my agency to reap the longest possible return-on-investment of our existing system, but sets the stage so that we are continuously and seamlessly incorporating faster and newer generation network and application technologies as they become available. ”

Sheriff Mike Hale, Jefferson County, AL Sheriff's Office



MOBILE 5 ON PATROL

Whether on a motorcycle, bicycle, on foot or doing search and rescue, many police officers are not in a traditional vehicle with a laptop, but they still need full connectivity. In fact, for a great portion of their time they may be on a remote site with access only to a handheld device. With Radio IP MTG, these users share the benefits of their laptop counterparts, with full access to department applications by connecting securely to the wireless LAN or WAN.

Radio IP MTG has a reduced size client interface designed specifically for

Mobile 5, giving workers access to all wireless networks, alone or in combination.

Ultra portability for your troopers

Tap into remote databases from virtually any location, without having to go back to the vehicle. Send real-time, mission-critical messages out to the field or to the command center.

Seamless, transparent and background mobile functionality gives your officers the flexibility to be where they need to be, when they need to be, with their tools right at their fingertips.

Mobile 5, low-cost portability

Mobile 5 handheld devices are an inexpensive alternative to equip your officers with the necessary tools to perform their job.

At five to seven times the cost savings over ruggedized laptops, handheld devices are powerful, yet lightweight, and compact enough to carry on a belt. You can increase productivity and reduce errors in the field while maintaining full connectivity with Radio IP MTG.

RADIO IP SOFTWARE SUITE OF SOLUTIONS

Radio IP MTG™ Offers:

- Wireless Security with Mobile VPN
- High Level Encryption
- Two-Factor Authentication
- Continuous Wireless Connectivity
- Application & Session Persistence
- Multi-Network Interoperability & Roaming
- Network Performance Improvement
- Optimized TCP/IP
- Compression & Throughput Gains
- Powerful Network Administration Tools
- Forward & Filtering
- Handheld Device Integration
- Lowest Infrastructure Total Cost of Ownership
- Clear Migration Path to Future Technologies
- “Best In Industry” Customer Support
- and much more...

Radio IP Software is aware of the wireless communications challenges facing Public Safety Departments. As connectionware, we also are familiar with the diverse technologies deployed in wireless communications. Let our experienced team of professionals help you to get the most out of wireless data.

Radio IP Shadoport™ gives you better wireless data network performance and security when using legacy applications. An easy, flexible migration to TCP/IP integration.

Radio IP Mobility Manager™ improves the management and performance of your Motorola networks. The easiest, most cost-effective way to manage mobiles, host applications and RNCs on DataTAC and ASTRO networks.

Our GPS Management Suite provides you the most complete, interoperable, simple and easy to integrate GPS solutions. Achieve data accuracy, format compatibility, central management and more.



“ Seamless, smooth implementation of the software. The customer is very happy. Technical support is easily available and imminently qualified to deal with any problems. ”

Hugh Stockton, Engineer - Motorola

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For more information on Radio IP MTG, RadioRoam or our other wireless connectionware, contact us at: info@radio-ip.com.

www.radio-ip.com

