MOTOROLA
intelligence everywhere™

MOTOBRIDGE™

IP Interoperable Solution

BRIDGING THE COMMUNICATIONS GAP

Statewide, regional and local…now public safety organizations can make the connection without replacing their existing radio systems

When the storm hits…when the suspect flees… when the crowd could become a target…there's no time to hassle with incompatible communications.

GET ON THE FAST TRACK TO INTEROPERABILITY

Public safety personnel must be able to talk across multiple agencies so they can mount an effective joint response. Unfortunately, designing a multi-agency radio network that provides this level of interoperability has been a financial, physical, and cultural challenge.

Today there's an easier and faster way to establish communications between disparate systems in support of emergency response, day-to-day operations, and compliance with Homeland Security grant requirements. With the MOTOBRIDGE™ IP Interoperable Solution you can achieve interoperability now.

WORKS WITH THE NETWORKS YOU ALREADY HAVE

Federal, state, and local agencies with widely differing systems can come together today…without waiting to replace or upgrade their current systems. Radio users can talk to each other in the field. Dispatch centers and command & control facilities can conference. You can even add telephones. The bridges between systems are standing by 24/7, ready to be activated the moment they're needed.

CONNECT RADIOS, TELEPHONES, CELL PHONES AND DISPATCHERS

- Digital to analog
- Trunked to conventional
- 700/800 MHz to UHF to VHF to Low Band
- Radio to radio
- Legacy to legacy
- IP networks to IP networks
- IP networks to legacy
- Motorola to other vendors

ADDS JOINT DISPATCH CAPABILITIES

Dispatchers, network administrators or other authorized personnel can set up connections in seconds using a simple user interface. Field units can communicate directly or the dispatcher can participate in the calls. Basic dispatch capabilities are included on every workstation.Dispatchers can record audio and instantly replay the last 60 seconds of a call so vital information isn't lost.

ADAPTS TO FUTURE REQUIREMENTS

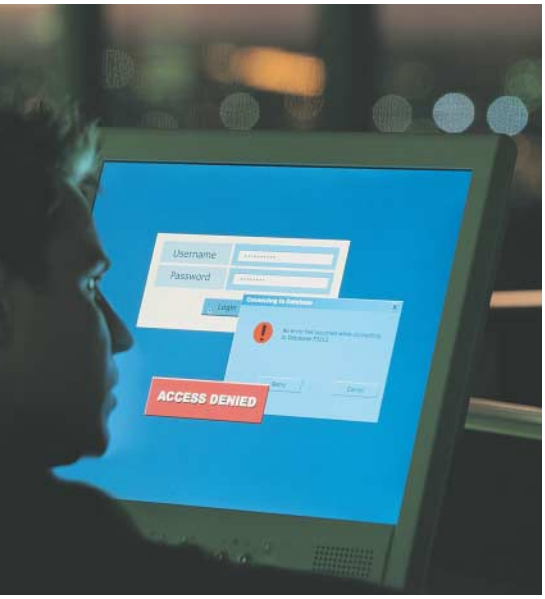
The MOTOBRIDGE solution fills an immediate need, but it's also a long-term investment. The network can start small and easily grow to a regional or statewide scope. New agencies and departments can join at any time and incur only incremental costs. And, because it supports the P25 standard as well as legacy systems, agencies can continue using the MOTOBRIDGE solution as they migrate to new systems in the future.

ON-DEMAND TALKPATHS

- Dispatch to dispatch
- Dispatch to radio
- Radio to radio
- Conferencing among multiple dispatchers

MOTOBRIDGE: A LEVEL 4 SOLUTION

The Association of Public Safety Communications Officers (APCO) has defined six levels of interoperability solutions, ranging from the most basic Level 1 (swapping radios) to the most advanced (a Level 6 standards-based system). On this scale, a MOTOBRIDGE solution is considered Level 4. More than a simple audio patch, it provides large scale, well-featured interoperability with voice communications.



A better way to connect
Better disaster survival. Other solutions on the market use a single, centralized controller. If it fails, you're out of touch. The MOTOBRIDGE distributed architecture has no single point of failure. If a piece of equipment is damaged, or if the power goes out, redundant equipment takes over and your joint communications are not interrupted.

Improved manageability
Network activity and operations monitoring makes it easier for maintenance teams to keep things running at peak performance. MOTOBRIDGE can run on any standard IP backbone, public or private, even the public telephone network, to fit the resources available in your area.

Integration with Motorola systems
Agencies that already use Motorola radios will enjoy the same features and user interface. "Virtual control heads" allow the dispatch workstation screen to emulate the familiar controls found on the user's Motorola mobile radio.

Higher security
Digital encryption ensures that only the right people can hear conversations. If desired, a firewall protects the network from hackers and other unauthorized access.

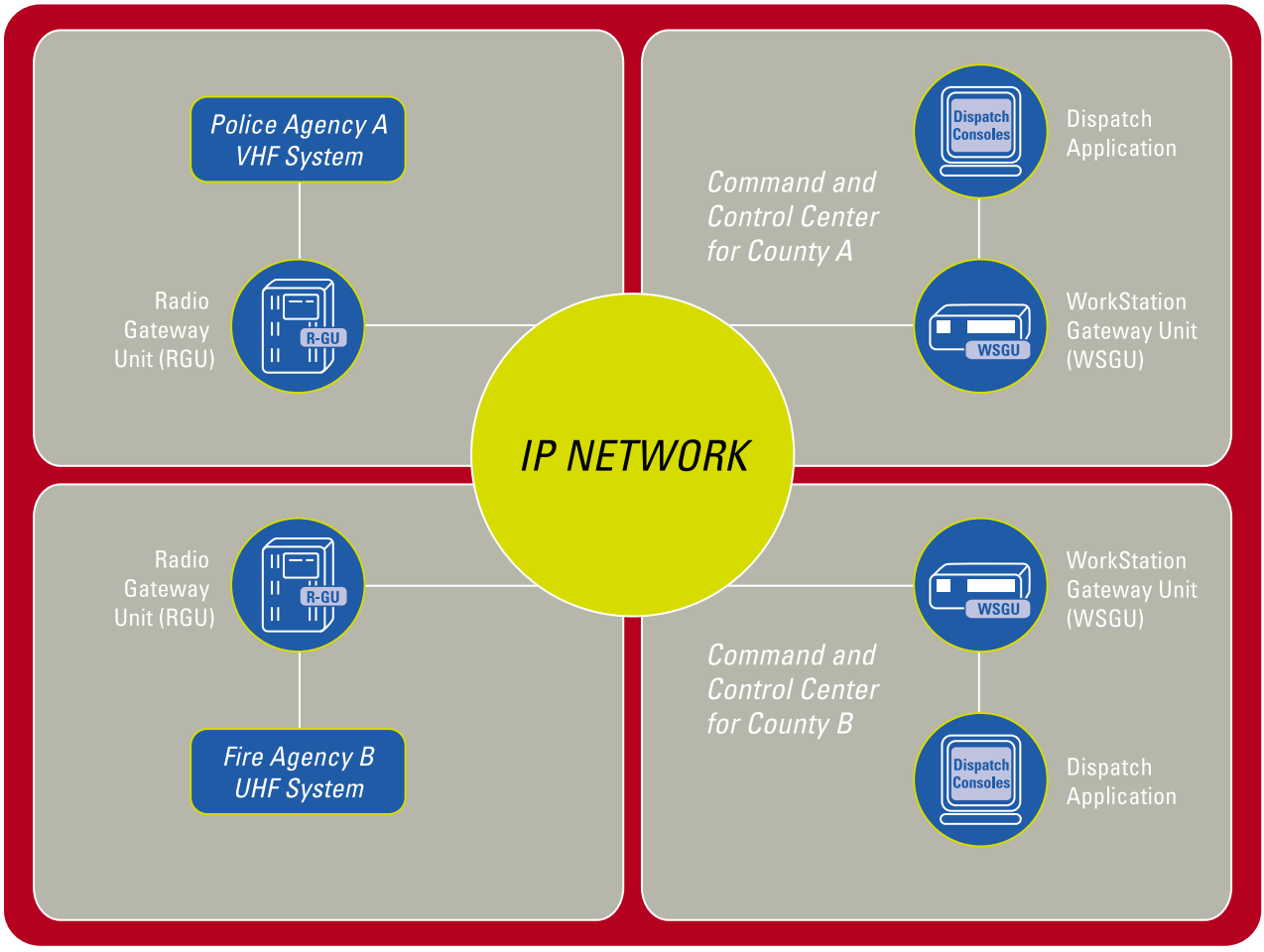
More advanced signaling
Agencies with radio systems that support advanced call signaling won't have to do without. MOTOBRIDGE connections carry these signals so users can still rely on features such as Emergency ID. Among agencies that use Motorola systems, these signals can be passed between conventional and trunked networks.

Better dispatch support
Every workstation provides basic joint dispatch capabilities, allowing users to monitor and participate in calls no matter where they originate. Full conference bridges can be opened between dispatch centers when events require a coordinated response.

Greater growth capacity
There is no limit to the number of agencies, users, and dispatch stations that can be added. The modular design allows the network to grow incrementally. There's no threshold that requires you to invest in a new mainframe computer – in fact, there's no mainframe at all, just standard PC's.

Greater affordability
With MOTOBRIDGE, you can leverage prior investments in systems, towers, dispatch centers, radios and other equipment. You can purchase many components off-the-shelf. And your training costs will be lower because users in the field keep their existing radios, while dispatchers work with an easy point-and-click user interface.

Support you can count on
Motorola stands beside you at every step, from initial needs assessment through financing, design, deployment, training, ongoing maintenance, and incorporating MOTOBRIDGE into your existing systems and operations.



THERE'S AN EXPLOSION AT THE CHEMICAL PLANT…and so the dispatcher uses her workstation screen to open radio links with surrounding fire departments, the county Hazmat squad, state police, FBI and the nearest hospital's disaster team. She activates a pre-established communications plan. If this incident requires additional resources that have not been pre-planned, the dispatcher can make dynamic additions as needed.

Radio users at the connected agencies can now call each other directly. The dispatcher can stay on the line and monitor all conversations…or radio users can manage without a dispatcher's direct assistance. As the incident develops, new agencies can be added and others can drop off. Other dispatch centers and command & control centers can conference in to coordinate a joint response. In effect, this community has a custom-built network assembled in response to this particular incident. The network came together in seconds. And those same facilities will be ready to adapt for the next incident.

Click-and-drag interoperability allows users at the dispatch center to activate network connections with a few clicks of the computer mouse.

Welcome to the future of networking.

The MOTOBRIDGE solution converts all radio messages to Voice over Internet Protocol (VoIP), an evolving standard for communications in the public and private sector.

- Off-the-shelf IP components can save money and give you more choice among vendors and equipment. Many components, including PCs and routers, are standard equipment you may already own.
- Existing network infrastructure (including private leased data lines, public telephone lines, and lines used to access the Internet) can be used to carry your radio traffic, allowing you to make the best use of facilities available in your area.
- Unlimited growth potential allows you to add new agencies and dispatch locations. There is no virtual limit to the number of users, or to the geographical reach of the network.

THE NETWORK CONSISTS OF:

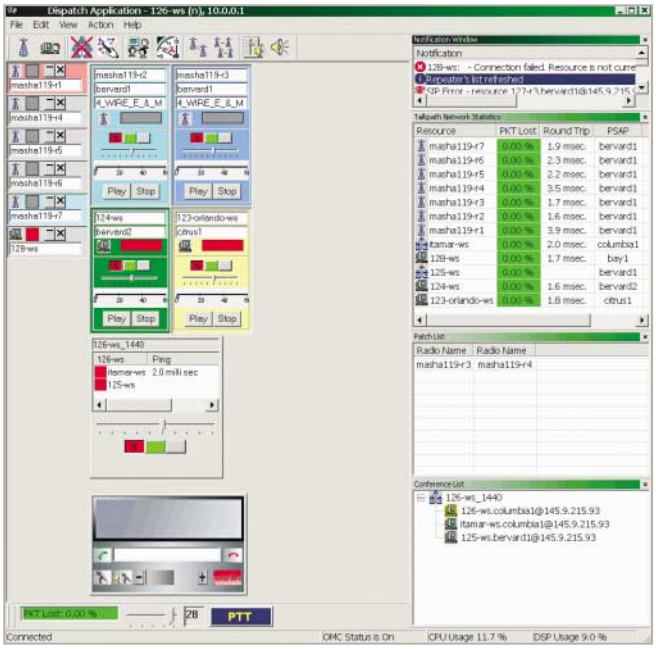
A **Radio Gateway Unit (RGU)** which can support up to eight radio interfaces.

A **Workstation Gateway Unit (WSGU)** which can be deployed in each dispatch center or other location where you want users to be able to set up communication links and/or assume joint dispatch duties. This connects to a MS-Windows® PC.

Operation and Management Center (OMC) Server which provides administrators with administrative functions such as activating privilege levels, talk-paths and control to trouble-shoot network performance. It can also be configured as a secondary backup.

SIP Server which sets up the peer-to-peer links that enable RGUs and WSGUs to communicate. SIP (Session Initiation Protocol) is an industry standard for setting up communication sessions among participants using VoIP.

When agencies join an established network, they install an RGU as an interface into the system. And, if they want to have dispatch capabilities, they install a WSGU on a PC at their dispatch center. That's all it takes to bring new agencies into a MOTOBRIDGE network.



Dispatch software is included on every workstation, making the MOTOBRIDGE solution a quick and cost-effective way to enable agencies with emergency joint dispatch capabilities.

When lives are on the line, you need a partner with experience and expertise.

EXPERTS IN MISSION CRITICAL SOLUTIONS

For more than 65 years, Motorola has been a leading provider of interoperable communications for public safety and first response. For more information about MOTOBRIDGE™ and other solutions that can help you make interoperable communications a reality for the community you serve, visit our web site at http://www.motorola.com/missioncritical

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