

# Mission Critical Communication for Transportation

Integrated. Interoperable. On The Highways.



*Safely getting people where they need to go is the top priority. Our Nation has nearly four million miles of roadway—and more drivers than anytime before.*

Turner-Fairbank Highway Research Center

## Traffic congestion, road construction and accident fatalities...

...These are just a few of the many issues that may keep the Department of Transportation (DOT) executives awake at night. Tasked with the responsibility of keeping hundreds, thousands and even millions of drivers safe and arriving at their destination in a timely manner, the need for mission critical communication solutions for transportation management has never been as important as it is today.

In addition to the challenges of moving goods and people safely and efficiently, there has been a growing concern since 9/11 over the vulnerability of our roadways to terrorism. A heightened awareness to coordinate incident response and emergency evacuation has brought on the need for networks to interoperate on the local, state and federal level.

A Mission Critical solution enables transportation departments to move from independent operations to interdependent collaboration by allowing DOT members to communicate as one with other agencies, including first responders via networks that are always available and provide information when and where it's needed.

In order to provide this level of coordination and collaboration across local, regional, state and federal agencies, Motorola recommends that the Department of Transportation consider these three components of a Mission Critical solution:

- 1. True Interoperability** enables instant communication among multiple responders and different agencies. It allows all responders, no matter what their agency, to communicate as a team and perform their job at the highest level possible.
- 2. Critical Networks** provide the availability, information security and reliability that responders require. The network operates as a "lifeline" that keeps all responders in contact and up-to-date with vital information, every day and especially during a crisis.
- 3. Mission Critical Data** fosters informed, rapid response via secure information distributed by networks and applications. The valuable combination of shared voice and data communication gives each responder the power of pre-emptive intelligence.

*Serve the United States by ensuring a fast, safe, efficient, accessible and convenient transportation system that meets our vital national interests and enhances the quality of life of the American people, today and into the future.*

**-Mission: The Department of Transportation**



As one of the three components of a Mission Critical solution, *True Interoperability* is a thorough, well-planned approach that enhances daily operations and, during a major incident, allows instant communication between all agencies and jurisdictions that respond. It is flexible and can accommodate all aspects of the users' requirements regardless of network type or agency affiliation. Gateways, such as MOTOBRIDGE™ IP, can provide a flexible option to becoming interoperable by enabling a preplanned connection of disparate systems. Motorola also offers a full portfolio of mobile and portable radios designed to be rugged yet affordable while meeting your interoperable needs.

*Critical Networks* provide the availability, information security and reliability that responders require. The network operates as a lifeline and is 'always available'.

Critical Networks allow True Interoperability to take place and Mission Critical Data and Voice to be delivered when and where it is needed. For years, Motorola's ASTRO®25 network has enhanced the operations of mission critical users delivering True Interoperability, IP dependability, scalability and integrated voice and data. Cities, counties and states all depend on this reliability and interoperability to keep operations running smoothly while sharing information and data with confidence.

Attaining mobile intelligence through robust data is becoming more important for today's government agencies and public service personnel. It takes more than technology. It requires the right applications,

the right networks, the right devices and proper management to ensure that agencies have access to the vital information they need to effectively plan, prevent and when necessary, to react.

*Mission Critical Data* allows DOT personnel to perform rapid and pre-emptive responses, via secure information provided by applications and distributed by networks. Motorola's proven technologies and field tested solutions enable DOT and county and city traffic departments to share critical video and other information among public service and public safety agencies.

Motorola's Mesh networking technology enables users to wirelessly access critical broadband applications anywhere, at any time. Powerful applications such as wireless broadband solutions for Intelligent Transportation System (ITS) uses mesh enabled video cameras to monitor construction sites, traffic congestion points, or at risk public infrastructure assets. Motorola also offers a choice of rugged mobile data terminals to communicate on the move with an exceptional combination of portability, accessibility and versatility.

Today's infrastructure thrives on information, and transportation systems will depend more and more on abundant data. In the vehicle. Among vehicles. On the highways. Motorola is ready to provide a complete, integrated portfolio of mission critical communication solutions and next generation smart applications for intelligent transportation systems.