

Mesh Enabled Solutions for LAW ENFORCEMENT Agencies

A Mesh Enabled Architecture (MEA) solution is a complete, IP-based, communications system designed to provide Law Enforcement officers with an instant and reliable mobile broadband network. MEA technology offers an integrated network for high-speed data, video, voice messaging and position location services to increase the efficiency and safety of personnel and assets.

Broadband data rates, with burst speeds of up to 6 Mbps, support multimedia communications and bandwidth-intensive applications. High data rates also save time. File transfers, field reports, and database inquiries happen at desktop-like speeds. Unlike solutions based on sharing the public cellular network, this capacity is dedicated to Public Safety users.

MEA networks are self-forming and self-healing, making them quicker and less expensive to deploy than other wireless solutions. Personnel can instantly form wireless broadband networks among themselves at an incident. No network infrastructure is needed.

Public Safety agencies must look beyond today's cellular data limitations. Motorola has created a high performance and robust wireless solution to help these agencies fulfill their expanding roles.



Communicate.
Locate. Interoperate.

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APPLICATIONS

Wide Area Data Connectivity • A MEA network is the perfect solution for agencies being forced to find a CDPD replacement. It offers up to 50 times the data rate of CDPD, so it can support today's new data-intensive dispatch and incident reporting applications.

Incident Communications • MEA technology enables broadband networks to form instantly, without requiring existing infrastructure. User devices become the network - forming a mesh of wireless broadband coverage on-site.

Asset Tracking and Location • Mesh enabled Law Enforcement vehicles can provide continuous updates on location, route taken to incident sites, distance from a location and estimated time of arrival. Other MEA devices, such as bomb disposal robots or K-9 assets, are also tracked in real-time.

In-Field Report Submission • Officers can submit reports wirelessly, without being anchored to tiny "hot spots" like WiFi-based approaches. Wide area and high-bandwidth connectivity gives access where it's needed most - on the way to, or at the scene of an incident.

Voice Back-Up • Voice over IP (VoIP) and voice messaging capabilities provide an emergency back-up to the primary voice radio system.

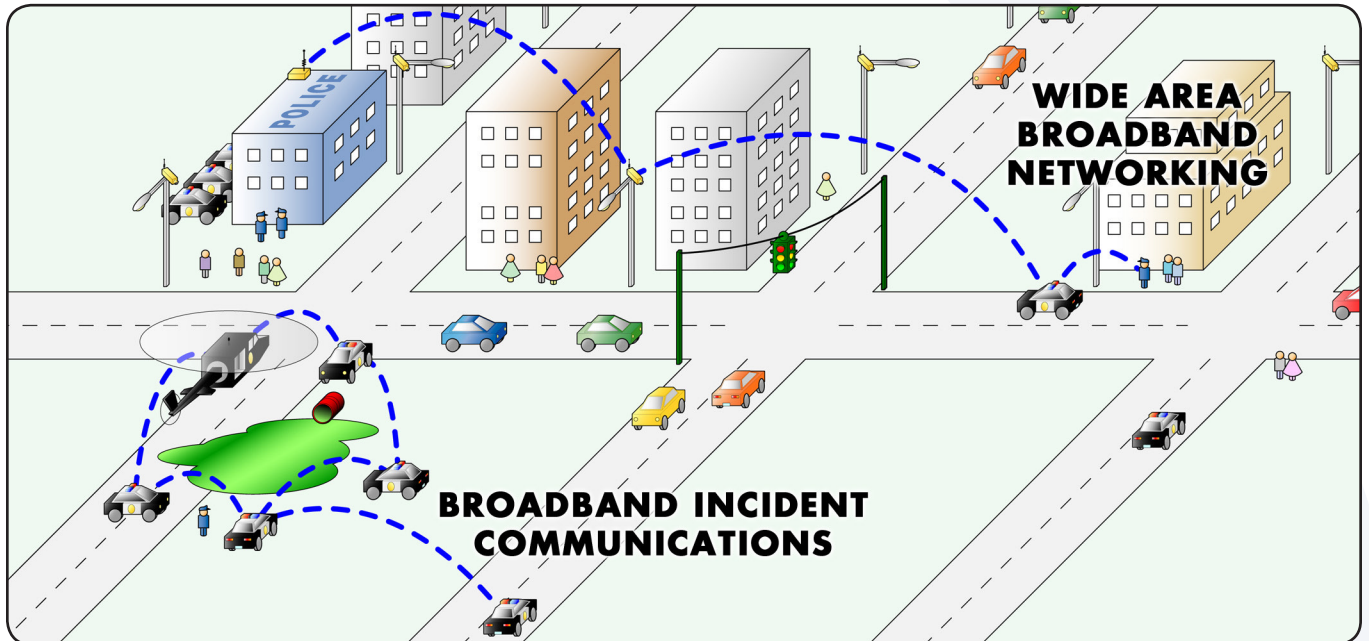
Video Monitoring • Video can be streamed to and from officers in the field, including video feeds from helicopters. Mesh enabled video cameras can be deployed quickly to monitor highways, public buildings and other at-risk targets.

Desktop Applications In the Field • Emails with attachments, database look-ups, instant messaging and high-speed file transfer are a few of the applications that become practical with MEA broadband data throughput rates.



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MESH ENABLED ARCHITECTURE



MEA BENEFITS

Dedicated Network Infrastructure and Capacity

Unlike solutions that share public infrastructure and bandwidth, MEA networks can be deployed and operated solely for the use of law enforcement personnel. MEA network users do not have to contend with civilians flooding the wireless system and impacting network availability or performance. Network performance is predictable and dependable, even in emergencies.

Robust and Survivable Networking

Mesh architectures are inherently survivable. That is why the wired Internet employs a mesh architecture. This architecture is highly robust because communications paths automatically route around points of failure, congestion and interference. Portable infrastructure or end-user devices can fill in temporary coverage gaps.

Instant Tactical Networking

MEA technology provides SWAT and other specialized units with an instantly deployable tactical communications network. Video from helicopters can be sent to the ground units to improve situational awareness. These units can also communicate to remote command centers through the wide area MEA network if available.

Supports Agency & Application Interoperability

Self-forming technology with end-to-end IP protocol support enables agencies and applications to share the network - minimizing each agency's costs, while improving coverage, capacity and robustness for everyone.

TARGETED SOLUTIONS FOR...

Local and Federal Law Enforcement

Protecting the public on a local and federal level requires dependable, effective and immediate communications. Today's cellular networks limit the amount and richness of information that can be transmitted to critical assets. A MEA network's high data rate ensures that split-second decisions can be made accurately and reliably by keeping personnel well informed.

Homeland Security

Defending our country from attack is a top priority today. The loss of communications that may accompany such an event can delay or cripple an effective response. MEA technology provides immediate and reliable mobile broadband networks where infrastructure has been destroyed or never existed. Inherent position location capabilities allow for real-time tracking of assets and personnel in these situations. It also increases safety and efficiency for those tasked with responding to these threats.

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