

MeshTrack

Broadband Indoor/Outdoor Location System



Over 65 Years of Understanding the Needs of Public Safety

In today's world, you need a solutions provider that understands what Mission Critical is all about: the lives and well-being of your employees and the citizens they protect. That's why Motorola is a leading provider of interoperable communication systems for public safety, first responders and government agencies. Our experience, along with our skills, people, partnerships and alliances, allow us to build innovative, fully integrated technologies that let organizations like yours share vital information with ease and confidence. We've been doing it for 65 years, and we'll be standing by our customers for years to come.

We are committed to bringing all of our knowledge and technical expertise together, so you can focus on what you do best... to serve and protect the public.



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Motorola's MeshTrack location system can track personnel and resources, even inside buildings, while also providing a broadband channel for live video, audio and telemetry data.



Motorola's MeshTrack location system enables users to leverage critical broadband data seamlessly – any time, and anywhere. Locate personnel and resources, stream live video of an incident to HQ, or even shave precious minutes from a rescue. Whether inside, underground, or outdoors, the MeshTrack location system delivers real-time information to detect, prevent, respond.

Enhance Incident Response Management

A rapid, coordinated response is imperative when lives are at stake. Real-time tracking of emergency personnel at an incident can help improve situational awareness and aid the efficient deployment of resources. The MeshTrack system has been engineered to provide a fast and easy-to-deploy tracking and data networking solution for command and control. This powerful location and wireless broadband capability can help incident commanders and resource managers prevent, preempt and respond to on-scene emergencies.

Track Resources Indoors & Outside

Unlike Global Positioning Systems (GPS), the MeshTrack system does not require links to satellites. This enables MeshTrack to work in places GPS cannot, including deep inside buildings, urban canyons and underground locations. This advanced location technology makes MeshTrack an ideal solution for emergency response agencies who never know where an emergency call will take them. Personnel and resources can be located and tracked as they move through an area, exit a building or enter a restricted area.

Integrated Location & Data Networking

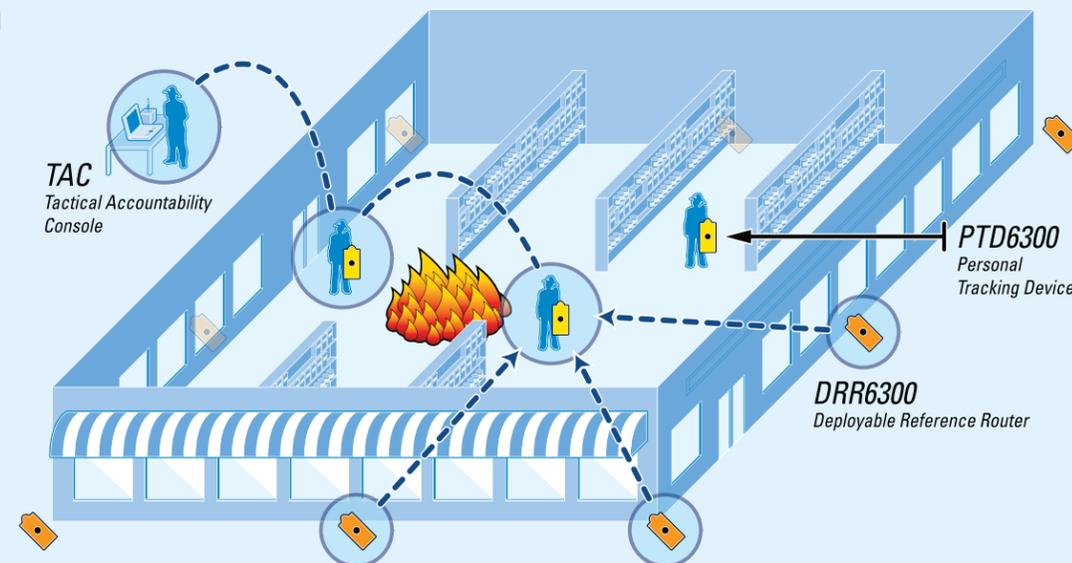
The MeshTrack system provides critical location information to incident commanders and first responders. Each device cooperates to use advanced 'time of arrival' (TOA) techniques to produce real-time location information. The location of all personnel and resources equipped with a MeshTrack device is displayed on a centralized Tactical Accountability Console. This information can also be shared with additional local or remote consoles, creating what the National Incident Management System (NIMS) recommends as '*total visibility of all resources*'.

MeshTrack systems provide more than just location. They create the backbone for a local broadband network. This network leverages Motorola's field-proven and widely deployed Mesh Enabled Architecture (MEA) technology. Mesh enabled video cameras and computers can utilize MeshTrack devices as repeaters to send and receive telemetry, video and data.

MESHTRACK OPERATION

Each person and resource equipped with a Personal Tracking Device (PTD6300) is tracked in real-time by Deployable Reference Routers (DRR6300).

DRR6300s are temporarily deployed at the incident site to form a local broadband network and to determine the location of personnel and resources. The data is then transmitted to the Tactical Accountability Console (TAC).



EMERGENCY RESPONSE AGENCY BENEFITS

- Supports increased personnel safety and efficiency by tracking and verifying the actual deployment of field resources
- Helps reduce time required for Search & Rescue operations
- Enhances incident command with the ability to track personnel in enclosed structures
- Maximizes safety by using intelligent positioning to indicate the proximity of personnel to the exits and to each other
- Augments situational awareness by importing aerial photos or building blueprints into the Tactical Accountability Console
- Provides wireless support for on-scene video surveillance
- Supports existing incident collaboration software

PTD6300 / Personal Tracking Device

The Personal Tracking Device is a small, ruggedized transmitter worn by emergency responders, public safety personnel and anyone else that needs to be accounted for. This device contains a remotely monitored battery indicator, and features a prominent "alert button" for getting Incident Command's attention.

DRR6300 / Deployable Reference Router

Deployable Reference Routers are placed around an incident to form an instant, ad hoc mesh network for integrated position location and data networking. These devices determine and relay location data, and provide a path for broadband radio signals to enter and exit structures.

IAP6300 / Intelligent Access Point

The Intelligent Access point provides the wireless gateway between a MeshTrack deployment and the Tactical Accountability Console.

TAC / Tactical Accountability Console

The Tactical Accountability Console consists of MeshTrack location software operating on off-the-shelf computers, laptops or tablet PCs. Primarily intended for personnel and resource management functions, the TAC provides a central point where all tracking data and telemetry can be quickly communicated to incident command for immediate decisions.



PTD6300
Personal Tracking Device



DRR6300
Deployable Reference Router