Emergency Management Incident Tracking System

EMITS™

EMITS™ provides the first integrated tracking system for managing field personnel and assets in real-time. Working with standard Microsoft based computers and handhelds, an organization can manage, monitor and account for any type of emergency or critical situation. EMITS™ provides an organization with a cost effective strategy of maximizing IT resources, ER personnel and assets through the use of their existing knowledge and management systems. Developed from the tactical and operational needs arising from the 2005 San Diego fires and refined in development by experience in the field with the multi-county PA Pittsburgh Region-13 Wright Plan Exercise.

EMITS™ encrypts and communicates:
- at sub-second speed
- over any wireless medium
- persistently, reliably, with no interruptions
- under the most limited bandwidth conditions

Wherever a critical situation may unfold EMITS™ will:
- send live data, pictures and videos to remote Command and Control (C2)
- scan ID badges to verify personnel capabilities and certifications, personnel information can be pulled in from a multitude of different agency databases, on an as needed basis
- display a photo from C2, if identity verification is required
- register on-site auxiliary personnel and other individuals (accident victims)
- track personnel moving from one security zone to the next (staging area into hot-zone)
- allow medical vitals to be entered and transmitted before and after an event
- track the use of equipment and material assets
- display the GPS location of team units
- transmit safety alerts to C2, for instance to request more personnel and or assets
- sound safety alerts, for instance, when oxygen tanks are running low or when more personnel or assets are needed
- feed event data to other emergency responder databases (WebEOC)

Features

Alert Monitor Capability
Programmable alerts. EMITS™ will trigger an alert in real-time on a remote monitor program running on a WIN32 platform. A user-defined alert can be implemented and used to respond to a wide range of safety alerts and event notifications.

Full Data Transport Security
EMITS™ is National Institute of Standard and Technology (NIST) Federal Information Processing Standards (FIPS) FIPS140-1 certified and FIPS140-2 compliant. It also meets the Department of Defense Information Assurance Certification and Accreditation Process (DIACAP).

Supports all TCP/IP Network Implementations
EMITS™ is fully compatible with all networks that can send TCP packets, such as 802.11, GPRS, Satellite or the local LAN. It is fully compatible with existing security systems that run at the physical, link or network layer. This also includes all Virtual Private Networks (VPN) software. EMITS™ can be used to provide a truly multi-layered security solution.

Commercial-Off-The-Shelf (COTS) Client Software and Hardware
EMITS™ is a COTS application whose client runs on either Microsoft Mobile 5.0 and 6.0 compatible devices and equipped with the applicable scanner (RFID, Barcode or Magnetic Strip Reader). EMITS™ makes use of a device's build-in camera to capture event photos.

High Volume, High Availability Server Component
A small to moderate computer can support several thousand users simultaneously with a mission critical level of reliability. This allows for an unprecedented level of scalability and establishes a very low cost of ownership.

Data Integration with Other Systems
Data Importer combines and manages personnel and asset information simultaneously from many different database sources. Data Exporter feeds information into other management platforms such as Knowledge Center or WebEOC. Information and data can be exchanged in a variety of standardized formats such as National Information Exchange Model (NIEM).

TRICORDER DATA SYSTEMS
Scan your world, make it safe.

Tricorder Data Systems, Inc. (TDS)
created EMITS™ in 2008
Tricorder creates products and services that provide real-time secure mobile computing solutions.
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