

## 3e Technologies International

3e Technologies International (3eTI) provides integrated technology solutions through advanced software, hardware, and integrated services based upon e-devices, e-infrastructures and e-applications.

3eTI's InfoMatics Tracking and Monitoring System offers robust, turn-key solutions with integrated security and management interfaces. They are driven by an efficient and small footprint embedded operating system.

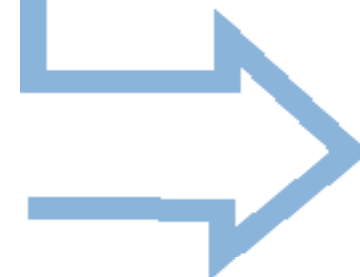
3eTI has proven technology leadership in the areas of remote monitoring, highly secure wireless networking, integrated sensor networks, and systems integration.

Our solutions are designed to provide tangible benefits including total cost of ownership reductions and ROI improvements.

Our implementations leverage our proven technologies, unique products, successful Department of Defense programs, Federal Agency R&D, and a strong management team.

# InfoMatics® Tracking and Monitoring System...

**the combined benefits of GPS and GIS**



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# Core System Features

## Access Control and Security

Access to the InfoMatics Tracking and Monitoring System incorporates multifaceted granular control, with three levels of access: SuperUser, AdminUser and User, all of which are password protected and encrypted.

## Administration

For better management of the ITMS, the system administrator can set up functions and user assignments to meet business needs. It's a flexible system.

## Management Reports

The ITMS provides varied means for viewing the collected information and data. Text formats provide detailed itemized information, while the geographic displays provide the spatial context.

## Outbound Messaging

In critical response situations, the ITMS provides the ability to precisely and quickly locate all personnel or assets, expediting response time and facilitating communications.

## Mapping Functionality

A picture speaks a thousand words. The ITMS's GIS component provides the big picture instantaneously. The GIS provides the capability to dynamically pan an area and to zoom in and out to achieve the appropriate view of the precise area of observation.

## Help Page

Training, in this world of technical complexity and employee mobility, is an on-going concern. The ITMS contains contextual Help Screens to train and assist new workers and to help with complex tasks.

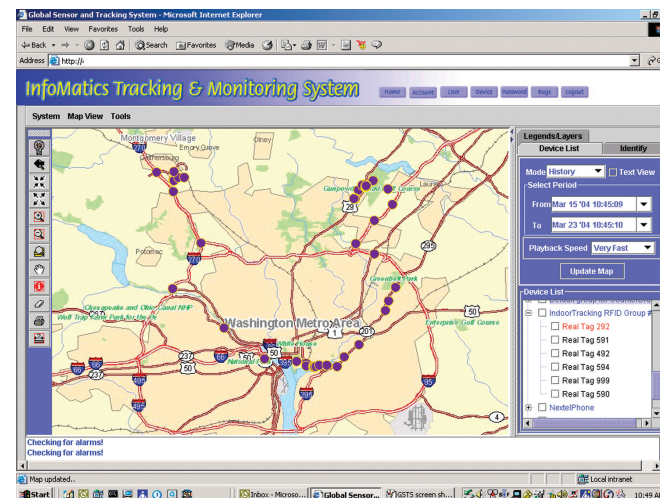
## Site Navigation

Site navigation tools enable the user to query and find the precise feature needed.

# InfoMatics® Tracking and Monitoring System

*InfoMatics integrates today's broad range of tracking devices*

The InfoMatics Tracking and Monitoring System (ITMS) utilizes 3e Technologies International's proprietary messaging middleware, InfoMatics Integrator™, to integrate real-time data from virtually any wireless data source, be it equipment monitor, CCTV system, access control system, location-enabled cell phone, or satellite beacon. ITMS then translates and collates those diverse datasets and presents it to the user for immediate analysis and response in critical situations.



*The InfoMatics Tracking and Monitoring System allows historical & real time tracking of asset placement and movement*

The ITMS embeds Geographical Information System (GIS), Global Positioning System (GPS) and wireless sensor technologies to provide a comprehensive and powerful information management solution.

*Critical information is both real-time and historic*

Actual as well as historical positioning of personnel and vehicle assets is provided and stored within the GIS component. Combined with GIS intelligence, such as addressing, asset location and building floorplans, the user can readily assess the significance of and respond to events in progress.

The GPS component provides for global tracking of emergency vehicles, transport carriers and responder teams.

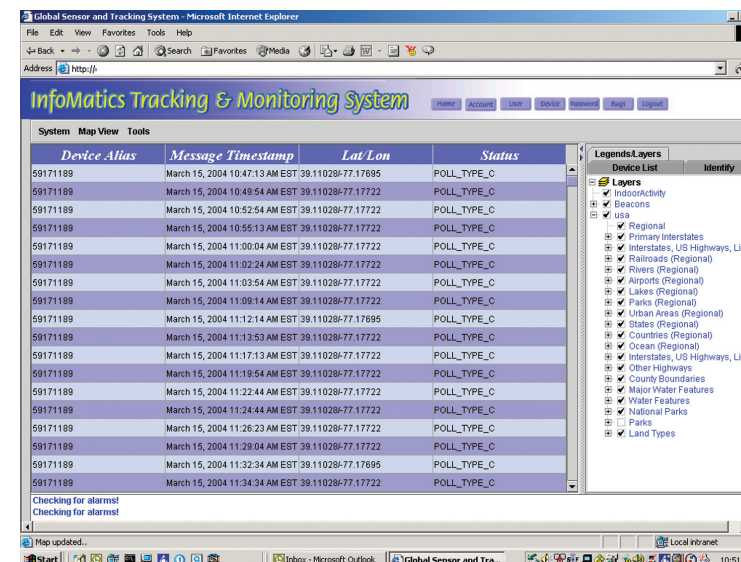
The Sensor component can read sensor data (determining the presence of bio/chemical or gases, severe temperature, weather, or using wireless cameras to provide visual data) to contribute site-specific warnings where physical entry could jeopardize the safety of crews or equipment. Sensors such as security badge readers can allow for real time tracking of personnel, vehicles or visitors.

*Developed for emergency personnel, it has broad applicability*

The ITMS was first implemented by emergency teams who required a simple but comprehensive integrated system for use by first responder teams. As such, it needed to have the capability of gathering data from a variety of wireless devices. It must accomplish this rapidly, providing real time data for coordination of team efforts. It had to allow constant updates and store a history of events.

With its integrated components, the ITMS provides the tools needed to coordinate and orchestrate emergency cross-agency efforts productively and efficiently. The system supports two-way messaging between an Emergency Operations Center (EOC) and the response personnel. Embedded reporting mechanisms contribute to the dissemination of critical information and subsequent analysis.

Beyond its use by emergency teams, businesses can use capabilities and functionality of the ITMS to solve everyday business problems such as managing mobile staff and roving assets, detecting spatial patterns of occurrences or incidents, performing correlation analyses, determining shortest routes, condition monitoring of equipment through wireless sensors, realtime monitoring of system's functionality, and much more.



*An example of a GIS message timestamp screen*



*An InfoMatics-based Emergency Operations Center*

## The Core Component: InfoMatics Integrator

The InfoMatics Integrator middleware provides the core foundation for these capabilities. Designed to be flexible, it lends itself to modeling for new applications, such as roadside fleet tracking, web-sensing, machine monitoring, facility monitoring, supply chain management, and the like. Like a hub, it can be tailored to accept data from multitude of diverse input sources and devices, transform the data and deliver it to any application. In short, it will accept information from GPS-enabled cell phones, in-vehicle devices such as SkyWave and the 3eTI Asset Tracker, both analog and digital sensors, RFID tags and badges, Information systems (for example: security, electrical, fluid management, HVAC, threat detection, chemical, biological, radiation detection), information technology systems, and hospital monitoring systems.

Its versatility gives it applicability in fields such as:

- Public safety & emergency response
- Homeland security / anti-terrorism
- Public works
- Asset management
- Utilities distribution systems (electric, telecommunications, oil, gas, pipeline, fiber optics)
- Environmental management
- Contract engineering
- Virtually any location-based tracking need

## The ITMS — the omniscient system

We might well call the InfoMatics Tracking and Monitoring System the omniscient system. It is built with an eye to flexibility and expandability. OK, it's not *really* omniscient. But, if adequate input resources are programmed properly to its central core, it has the ability to *act* nearly omniscient. And, if you need an omniscient system, this comes close to being the ultimate.