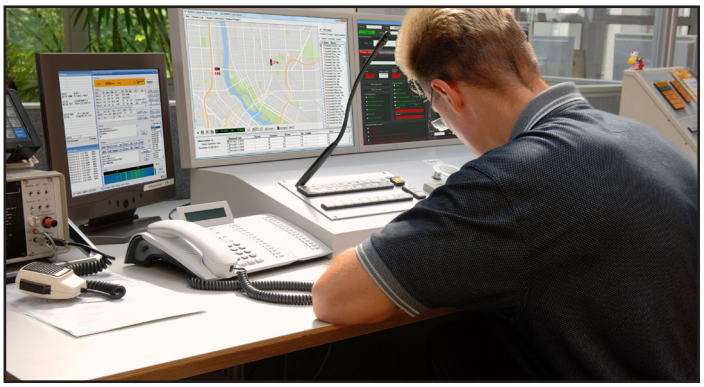
EMTRAC

First-Response Central Monitoring System

The EMTRAC Central Monitoring System enables first-response dispatch and department personnel to remotely monitor vehicle and intersection activity in real time.



In addition to Emergency Vehicle Preemption (EVP), EMTRAC-equipped vehicles continuously report location and activity data to network-connected EMTRAC detectors in signal-control cabinets. This data is displayed on the Central Monitor software, which displays current vehicle activity on a map. Activity is also recorded in detailed logs, which are saved for later review.

As with other EMTRAC components, the Central Monitoring System can be customized to meet agency requirements.

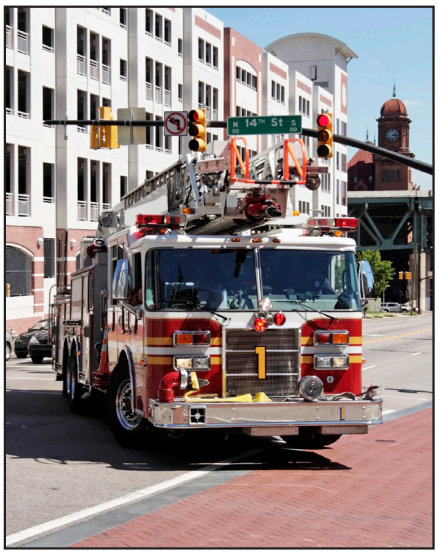
System Components

Vehicle Computer Unit

Priority Detector

Vehicle Computer Unit (VCU): Rugged onboard unit is easily concealed behind interior panels. The VCU connects to a low-profile GNSS/RF antenna mounted on the vehicle roof.

Priority Detectors: Installed at intersections, these units receive VCU RF signals, output calls to traffic controllers, and saves detailed activity logs. The detectors are also used for Transit Signal Priority (TSP), Emergency Vehicle Preemption (EVP), and vehicle-detection applications. Detectors connect to a pole or cabinet-mounted antenna.



Central Monitor: Remotely displays real-time vehicle and intersection activity, stores detailed activity logs, and records changes in network-communication status.

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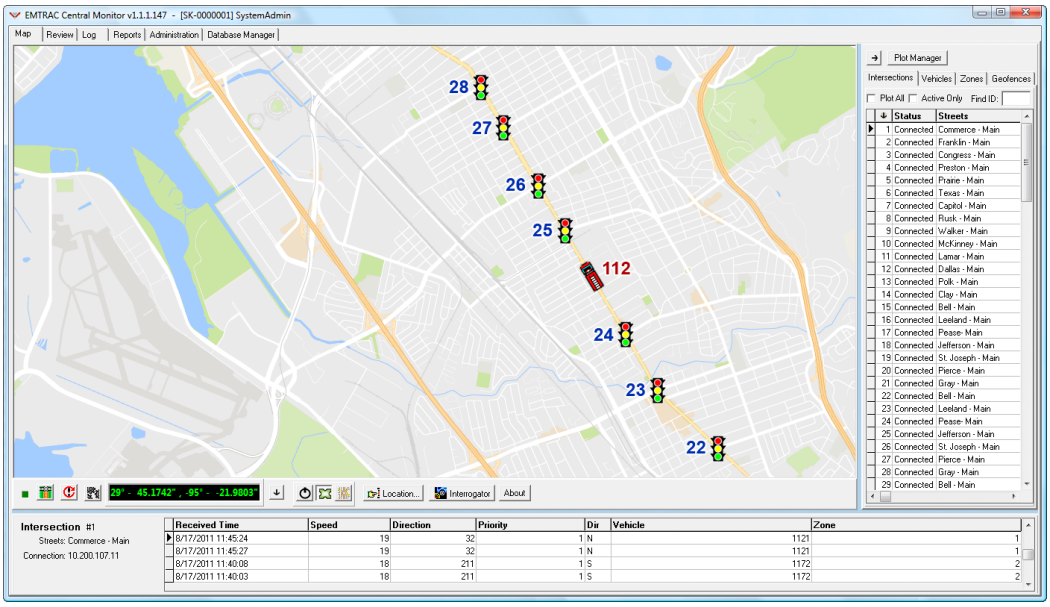

Central Monitor Software, Map Tab

EMTRAC EVP Features

- Quickly locate specific vehicles and intersections with the click of a mouse.
- Connect to intersection controller switches to enable display of current signal-
status on map.
- Automatically download and save vehicle activity logs while vehicles are at station.
- Generate user-definable reports, which can be configured for automatic archiving and emailing—daily, weekly, or monthly.
- Automatically email activity alerts to designated personnel—as specified events occur or on a recurring basis.
- View logs and reports, that show changes in connectivity status to help identify possible network issues.
- Optional components include onboard alarms that alert the driver if priority requests have been denied by the controller.

EMTRAC EVP Benefits

- **Timeliness**: View vehicle progress that is updated on the map every four seconds.
- **Ease of Installation**: Central Monitoring System interfaces with existing EMTRAC TSP or EVP system components, requiring minimal additional equipment.
- **Expandability**: Agencies can upgrade their existing EMTRAC systems with minimal effort, expanding the system as schedules and budgets allow.
- **Flexibility**: Customize permissions for individual or group users and alter reporting responses to meet specific agency requirements.
- **Accuracy**: The EMTRAC system utilizes precision GPS to ensure *exact* vehicle location reporting—even in unfavorable urban environments.
- **Security**: Frequency-Hopping Spread Spectrum radio signal has superior range and utilizes AES encryption.