



EMTRAC

Traffic Center System

Like a fleet of fighter jets, a traffic signal system must remain in a “state of readiness” with all critical functions operating properly at all times. With the Traffic Center system, both large and small cities can receive the real-time status updates that are essential for continuous system readiness.

For cities without an Advanced Traffic Management Center (or Traffic Department), the Traffic Center system provides key functions.



Workstation monitors can display current phase states for all equipped intersections, as well as a wide range of detection-input and vehicle activity. This activity may be displayed on a single workstation monitor—or it may be apportioned for display across a video wall.

The Traffic Center system provides *real-time* updates for a wide range of critical system information, and it includes modules for *Phase Status*, *Vehicle Status*, and *Cabinet Status*.

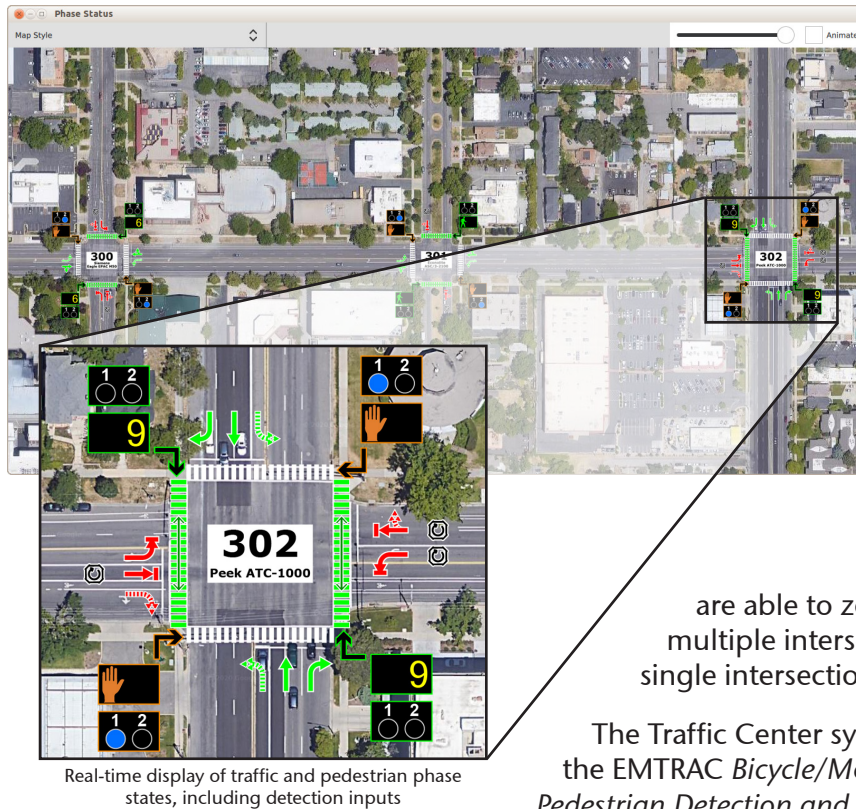


Traffic Center Features

- Compatible with NEMA and Caltrans cabinets, plus NTCIP-capable controllers.
- Real-time map display of intersection and vehicle status
- Triggers email and/or text alerts to designated personnel when flagged events occur
- Provides event logs showing detailed data history for each installed module
- System updates may be provided over a wireless bridge, utilizing NTCIP (as well as other TCP/UDP/IP-based protocols)
- System services are cross platform (Windows/Linux), and incoming data is stored in a SQL database

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The Traffic Center system includes multiple service modules, which enable cities to efficiently expand their ITS capabilities.



Phase Status

The Phase Status module provides a map display of all equipped intersections, and it enables display of signal phase states, loop detection, signal-coordination status, pedestrian inputs, signal preempt/priority status, and more.

Monitoring personnel are able to zoom out to display states for multiple intersections, or zoom in to view single intersections in greater detail.

The Traffic Center system also integrates with the EMTRAC *Bicycle/Motorcycle Detection* and *Pedestrian Detection and Signaling* apps.

Vehicle Status

The Vehicle Status module displays the real-time location and activity of all EMTRAC-equipped vehicles, including vehicle-detection zones and active priority requests.

Cabinet Status

System readiness starts at the control cabinet—and cabinets in remote locations are no exception. The EMTRAC system provides alerts to designated personnel when faults are detected or when environmental or performance parameters fall outside defined thresholds.

Monitored states includes power-supply status, cooling-fan speed, cabinet temperature & humidity, door status, as well as NTCIP-standard indicators to provide alerts when a wide range of system faults are detected. EMTRAC hardware provides accurate GPS time for all events and can provide corrections to controller real-time clocks.

