

### 3.3.3

#### Traffic Management Center Master Software

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Opportunities for improving operations at Traffic Management Centers (TMCs) are emerging as more data becomes available through new sources, such as newly constructed ITS infrastructure. At TMCs, communications and data sharing among various ITS software systems is often difficult, fragmented, and uncoordinated, with redundant systems being utilized. Managing the growing volume of data flowing into TMCs by consolidating and streamlining the processes is only part of the opportunity. Transportation agencies are exploring innovative ways to put this wealth of data to new and better uses.

In response to this need, GeoDecisions has developed GeoTOPS (GeoDecisions Transportation Operations Solution). GeoTOPS is a unique GIS-enabled approach for seamlessly improving situational awareness and providing higher-quality data and information in a traffic management center (TMC) environment. It capitalizes on GeoDecisions' extensive experience in ITS implementation, geospatial data management, software development, and system integration. GeoTOPS can integrate a TMC's multiple data streams into one easy-to-use platform that is graphical and GIS based.

GeoTOPS can be customized to work with existing systems and offers the following functionality:

- Integration of real-time and static transportation data
- Consolidated control of ITS field devices
- Integration of traffic signal systems
- Incident management mapping, reporting, and tracking module
- Text, e-mail, or cell phone notification
- Dynamic detour and diversion selection and routing
- Evacuation routing
- ITS asset management systems
- Third party traffic, weather and incident information
- Freeway service patrol vehicle tracking and routing.

GeoDecisions is currently working with several state-level DOTs to implement GeoTOPS in their TMCs.