Software for creating traffic maps

The Command Viewpoint mapping module offers a complete map-based overview of assets, displayed by location. The Web-based map allows users to view current traffic conditions instantly, as well as view integrated data from traffic sensors and other asset types.

- Web-based map interface accessible from any networked Web browser
- Displays integrated data, such as traffic speeds, VMS messages, and camera video feeds
- Displays current traffic conditions using color-coded segments for easy at-a-glance management
- Specialized map data shows local roads and highways for easy geographical reference
- Displays assets by location, including road-side sensors, cameras, weather stations, message signs, HARS broadcast locations, construction zones, and traffic incidents
- Multiple map views for a wide range of uses including public Web sites, traffic management, center operators, and video wall displays
Technical specifications

Web-based mapping
- Map interface available through any networked Web browser
- Login system allows multiple users to access map functionality with specialized user permissions
- Zoom ability allows user control over map boundaries and detail level
- Map display includes local roads and highways for easy geographical reference
- Uses ThinkGeo’s world map kit, containing map data for the entire world
- Map-agnostic modular system allows swapping of different mapping modules (Google Maps, NAVTEQ, TeleAtlas) as needed for local installation
- Map module can be integrated into public website for general access to traffic information

Asset management
- Handles a variety of asset categories, including:
  - Traffic sensors
  - Cameras
  - Message signs
  - Weather stations (RWIS)
  - Highway Advisory Radio Stations (HARS)
  - Other custom assets as desired
- Layer system allows visibility of different asset categories to be toggled on or off
- Simple drag-drop functionality allows users to place and relocate assets on map with mouse
- Search functionality allows quick location of any asset within or without map boundaries
- Sensor assets can be imported directly from the Command Suite collection service
- Video wall option allows full screen display of map on monitor without header and user controls
- Video wall presets allow automatic zooms and location changes on a timed interval

Traffic alerts
- Displays traffic alerts automatically on map, directly from Command Suite monitoring service
- Construction zone or other custom messages can be added by users
- Device alerts or errors displayed by device location

Integrated data
- Selecting asset from map displays available data from that asset, including:
  - Video feed from cameras
  - Traffic data and lane configuration from road-side sensors
  - Current displayed message and timestamp for VMS
  - Current broadcast message and timestamp for HARS
  - Current temperature and weather conditions from RWIS
- Automatically reads XML feeds with updated device data or status
- Custom integration of third-party assets and integrated data through open XML format
- Modular support for new add-ons to control / manage third-party assets

Current traffic conditions
- Displays current traffic conditions directly on map using color-coded road segments
- Colored segments represent current speeds using either 3 or 5 user-defined color schemes
- Road segments can be created and modified by user, creating completely customizable traffic speed map

Minimum hardware specifications
- Processor: Two Intel Xeon processors or better
- Operating System: Windows Server 2008 R2 or newer
- Database: SQL Server 2005 or newer
- Memory: 4GB SDRAM or more
- Hard drive: 250 GB or larger
- Networking: 1000 Mbps Ethernet network card or better

Recommended hardware specifications
- Processor: Quad-core Intel Xeon processor or better
- Operating System: Windows Server 2008 R2 64-bit or newer
- Memory: 16GB SDRAM or more

Ordering information

Command Viewpoint (1 sensor license)
CMD-MAP

Command ViewPoint (50 sensor licenses)
CMD-MAP50

Command ViewPoint (100 sensor licenses)
CMD-MAP100

Related products
CMD-COLL – Command Suite

Contact us
801.734.7200
sales@wavetronix.com
www.wavetronix.com
- Hard drive: Three or more hard drives of 500 GB or more with RAID 5
- Dual power supplies
- Networking: dual 1000 Mbps Ethernet network card or better
Bid specifications

1.0 General. This item shall govern the purchase and installation of a traffic data mapping subsystem (TDMS), equivalent to the Wavetronix Command Viewpoint, that is used to view traffic conditions on roadways. All equipment and component parts furnished shall be new, be of the latest proven design and manufacture, and be in an operable condition at the time of delivery and installation. All parts shall be of high quality workmanship. All equipment shall include all licenses, where required, for any software or hardware in the system.

2.0 Product description. The TDMS shall be a Web-based traffic data mapping subsystem. This system shall be a commercially available off-the-shelf advanced traffic management subsystem that provides a traffic map for viewing current traffic conditions of roadways and highways. The TDMS shall be able to integrate data from traffic sensors and other asset types, including but not limited to road-side sensors, cameras, VMS messages, weather stations, message signs, HARS broadcast locations, construction zones, and traffic incidents. The TDMS shall display the assets by location using color-coded road segments. Users shall be able to view and manage the traffic data. All changes to the data shall be tracked so the user can see what changes have been made.

3.0 Web-based mapping. The TDMS shall provide a map interface that is accessible to any user on the network with a Web browser and internet connection.

The TDMS shall have a login system that gives multiple users specialized user permissions. Each user shall be able to access map functionality according to their assigned privileges.

The TDMS shall provide zoom capabilities that allow user control over map boundaries and detail level.

The map display of the TDMS shall include local roads and highways for easy geographical reference.

The TDMS shall use ThinkGeo’s world map kit, containing map data for the entire world.

The TDMS shall use a map-agnostic modular system that allows for the swapping of different mapping modules (Google Maps, NAVTEQ, TeleAtlas) as needed for local installation.

The TDMS map module shall have the ability to be integrated into a public website for general access to traffic information.

4.0 Asset management. The TDMS shall handle a variety of asset categories, including:

- Traffic sensors
- Cameras
- Message signs
- Weather stations (RWIS)
- Highway Advisory Radio Stations (HARS)
- Other custom assets as desired

The TDMS shall provide a layer system that allows the visibility of different asset categories to be toggled on or off.

The TDMS shall employ a simple drag-drop functionality that allows users to place and relocate assets on the map using a mouse.

The TDMS shall provide a search functionality that allows the user to quickly locate any asset within or without map boundaries.

The TDMS shall be able to import sensor assets directly from the Command Suite collection service.

The TDMS shall provide a video wall option that allows full screen display of the map on a monitor without header and user controls. The video wall presets shall allow automatic zooms and location changes on a timed interval.

5.0 Traffic alerts. The TDMS shall display traffic directly from the Command Suite monitoring service. These alerts shall be displayed automatically on the map.

The TDMS shall provide the option of having construction zone or other custom messages added by users.

The TDMS shall display device alerts or errors according to the device location.
6.0 Integrated data. The TDMS shall allow the user to select an asset from the map and display available data for that asset. Possible assets include, but are not limited to:

- Video feed from cameras
- Traffic data and lane configuration from vehicle detectors
- Current displayed message and timestamp for VMS
- Current broadcast message and timestamp for HARS
- Current temperature and weather conditions from RWIS

The TDMS shall automatically read XML feeds with updated device data or status.

The TDMS shall allow for custom integration of third-party assets and integrated data through an open XML format.

The TDMS shall provide modular support for new add-ons that will control or manage third-party assets.

7.0 Current traffic conditions. The TDMS shall display current traffic conditions directly on the map using color-coded road segments. The colored segments shall represent current speeds using either 3 or 5 user-defined coloring schemes. The user shall have the capability to create and modify road segments.

8.0 Hardware specifications. The TDTS hardware shall consist of a server with two Intel Xeon processors (or equivalent), Windows Server 2008 R2 operating system (or newer), a minimum of 4 GB of SDRAM memory, a hard drive of 250 GB or larger, and a 1000 Mbps Ethernet network card or better.