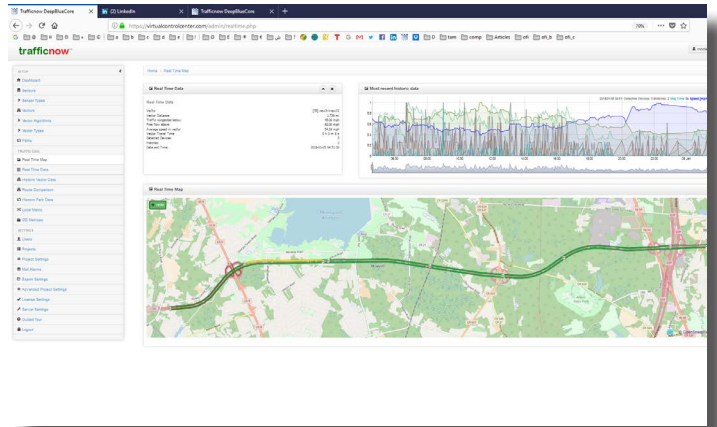# DeepBlue
Core

The DeepBlue Core is the trafficnow® centralized software for interpreting wireless probe data in the most efficient way for providing robust travel-time information for motorized vehicles during all traffic conditions.

The system is designed for generating travel times, congestion alarms and traffic data. The Core uses real-time data quality assessment and adapts data intervals according to the statistical probe quality. The system offers a series of different algorithms and filters to adjust to all types of roads and infrastructure.

DeepBlue Core can be deployed in all environments, and can be tuned to meet the different challenges found in a large urban, interurban or full metropolitan area. The DeepBlue Core engine uses advanced algorithms to separate vehicles from pedestrians. Each individual vector within a project can be tuned to meet the conditions of the surrounding infrastructure. The tuning can involve configuring a multitude of filters or using a different algorithm.

BENEFITS
- Cost-effective solution
- Field proven reliability
- Easy to install, configure and maintain
- Easily accessible from anywhere

FEATURES
- Web-based system
- DeepBlue sensor real-time operation
- Travel-time
- Congestion alarms
- Data quality factor
- RTMS data collection/reporting
- Sensor status information
- OSM GIS interface

APPLICATIONS
- Travel-time
- Congestion alarms
- Data collection and reporting
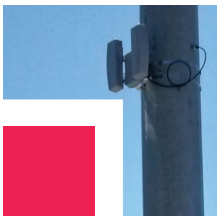
DeepBlue Core

SPECIFICATION

Data
- Optimized for DeepBlue and RTMS
- Advanced algorithms for travel-time generation
- Congestion alarms and warnings
- Multi-algorithmics for diverse infrastructure
- Quality factor for statistics diagnostics
- Automatic adaptive intervals
- Traffic data including numerous reports

Setup/System
- Web-based solution
- Different user levels
- Multi-language support
- Multiple simultaneous sessions
- GPS-based setup
- Linux, MySQL
- Local install at traffic control sensor
- Clouding at Virtual Control Center
- IP-based network; FTP, SSH, TCP Socket

Diagnostics
- Health monitoring
- Battery level alarms
- Data transfer logs
- Reboot logs
- Modem diagnostics
- Dynamic IP-updates
- Automatic email notifications

Visualization
- Open Street maps
- OSM
- Graphs

Output
- API for integration through Web services
- Excel for report/data download
- Protocol support (NTCIP, UTMC, OCPI2)
- XML data-forwarding

System Guidelines
- Processor: Dual
- CPU/Clock: 2.60 GHz octa-core
- Controller: 12 Gb/s SAS RAID
- Communication: Gigabit Ethernet
- RAM: Min. 32 GB
- Operating System: Linux

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