Command DataView

Command DataView offers advanced data analysis and reporting capabilities. Engineers can import traffic data then prepare that data for editing and publication. DataView comes with a variety of data report templates to fulfill federal requirements, or for internal use.

Features

- Automatically imports, cleans and publishes traffic data
- Flags questionable data according to user-defined parameters
- Stores cleaned data in long-term storage database in 5, 15 or 60-minute bins
- Creates data reports from library of over 20 report templates
- Manages Annual Average Daily Traffic and Monthly Average Daily Traffic metrics (AADT/MADT)
- Web-based interface allows viewing and editing of data records, including comparisons between different stations or different time periods
Technical Specifications

Station Management
- Supports any number of station records, with individual properties
- Customize station properties for local needs
- Import/export station records in XML, TMG or CSV formats
- Automatically import sensor records from Command Collector and generate stations based on user requirements
- Assign stations to station groups or sequential routes for ease of use

Data Management
- Imports data automatically from Command Collector
- Imports data from TMG or PRN file formats
- Assign stations to individual lanes from a registered sensor for easy data import
- Supports data aggregation of 5, 15 and 60 minutes
- Export data in TMG or XML data format, with volume, speed, occupancy and vehicle class data

Data Filtering / Editing
- Automatically flag data records with user-defined criteria (repeated values, missing data, data above/below thresholds)
- Automatically edit flagged data with user-defined changes
- Manually edit data values, with ability to revert back to original data at any time
- Directly compare data values between stations, or between time periods for same station

Publishing / Reporting
- Publish data to a long-term storage database using named published data sources
- Run custom reports manually from any data source
- Run automated reports according to a set schedule
- View custom reports through Web interface, or export in the following data formats:
  - TIFF
  - PDF
  - Rich text
  - Web archive
  - Excel
  - CSV
- Customizable report templates cover a variety of state and federal reports

Statistics
- Calculate and view daily traffic averages (AADT, MADT) for any station
- Manually add previously calculated AADT/MADT values to system

Ordering Information

Command DataView (1 sensor license)  
CMD-REPORT

Command DataView (50 sensor licenses)  
CMD-REPORT50

Command DataView (100 sensor licenses)  
CMD-REPORT100

RELATED PRODUCTS
CMD-COLL – Command Suite

Wavetronix
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Provo, UT 84606
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www.wavetronix.com

- Assign stations to factor groups for extrapolation of AADT/MADT values based on similar stations

Web-based Interface
- Interface accessible for any user with a networked Web browser
- Login system allows multiple users with specialized user permissions
- Options available through Web interface include:
  - Add or import stations
  - Modify or delete existing stations
  - Manage manual or automatic data import from Command Collector
  - Upload and import data from data files
  - Run data filters on imported data
  - View flagged data and make manual edits
  - Publish data to database
  - Merge new and existing data into common published data source
  - Create and view data reports from all template options
  - Add, modify and remove users as well as change user privileges
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
- Database: SQL Server 2008 or newer
- Memory: 16GB SDRAM or more
- Hard drive: Three or more SCSI or SSD hard drives of 500 GB or more with RAID 5
- Dual power supplies
- Networking: dual 1000 Mbps Ethernet network card or better
DataView Bid Specification

1.0 General. This item shall govern the purchase and installation of a traffic data reporting subsystem (TDRS), equivalent to the Wavetronix Command DataView, which provides traffic performance reports and analysis as required for Federal Highway reporting requirements as shown in the plans, as detailed in the special specifications and as directed by the engineer. 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 TDRS shall be a Web-based traffic data reporting subsystem. This system shall be a commercially available off-the-shelf advanced traffic management subsystem that enables DOT planning departments to satisfy Federal Highway reporting requirements, as well as other reporting and analysis function as required. The TDRS shall be able to import traffic data from commonly used formats. Users shall be able to manipulate and correct the imported data. All changes to the data shall be tracked so the user can see what changes have been made. The TDRS shall export the data and reports for storage and distribution.

3.0 Station Management. The TDRS shall support any number of station records, with individual properties for each.

   The TDRS shall allow new station properties to be added quickly to support user needs.

   The TDRS shall allow for the importing station records from XML, TMG or CSV format.

   The TDRS shall allow for exporting station records into XML, TMG or CSV format.

   The TDRS shall allow for the automatic importation of sensor records from Command Collector and shall generate stations based on user requirements.

   The TDRS shall assign stations to station groups or shall assign stations to routes in sequential routes.

4.0 Data Management. The TDRS shall be able to import station data automatically from Command Collector.

   The TDRS shall be able to import station data from TMG or PRN file formats.

   The TDRS shall assign stations to individual lanes from a registered sensor for easy data import.

   The TDRS shall support data aggregation of 5, 15 and 60 minutes.

   The TDRS shall be capable of exporting data in TMG or XML data format, including volume, speed, occupancy and vehicle class data.

5.0 Data Filtering / Editing. The TDRS shall have a filter system that can analyze station data with various criteria, such as repeated values, missing data and data values larger or smaller than given thresholds.

   The TDRS filter system shall be able to automatically flag data that meets user-defined filter criteria.

   The TDRS filter system shall be able to automatically edit flagged data with user-defined changes.

   The TDRS shall enable users to manually edit data values; this edited data shall be able to be reverted back to original data at any time.

   The TDRS shall be able to directly compare data values for a station to alternate data from another station or from the same station with another date.

6.0 Publishing / Reporting. The TDRS shall feature a published data system that allows system data to be published to a long-term storage database using named published data sources.
The TDRS shall enable users to manually run custom reports based on published station data. These reports shall be viewable through the Web interface and in the following formats:

- TIFF
- PDF
- Rich text
- Web archive
- Excel
- CSV

The TDRS shall support customizable report templates that cover a variety of state and federal reports.

The TDRS shall run automated reports according to a set schedule.

**7.0 Statistics.** The TDRS shall calculate annual and monthly volume averages (AADT, MADT) for any station and shall allow users to view the data.

The TDRS shall enable users to manually add previously calculated AADT/MADT values to system.

The TDRS shall enable users to assign stations to factor groups for extrapolation of AADT/MADT values based on similar stations.

**8.0 Web-based interface.** The TDRS shall provide a Web-based interface accessible for any user with a networked Web browser.

The Web interface shall have a login system that allows for multiple users with specialized permissions for each user.

The Web interface shall support the following functions:

- Add or import stations
- Modify or delete existing stations
- Manage manual or automatic data import from Command Collector
- Upload and import data from data files
- Run data filters on imported data
- View flagged data and make manual edits
- Publish data to database
- Merge new and existing data into common published data source
- Create and view data reports from all template options
- Add, modify and remove users as well as change user privileges

**9.0 Minimum Hardware Specifications.** The TDRS hardware shall consist of a server with two Intel Xeon processors (or better), Windows Server 2008 R2 operating system (or newer), SQL Server 2005 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.