

## DataTranslator

The one-of-a-kind Wavetronix DataTranslator bridges the gap between traffic data and end-use applications by providing a cost-effective way to get automated and immediate conversions between incompatible data formats and databases.

### Features

- Performs scheduled, triggered and on-demand data translations
- Translates databases, data types, file formats and data streams
- Connects legacy data collection & management systems to:
  - Emerging data standards
  - New reporting requirements
  - Other data management systems
- Web-based user interface allows remote management from any networked browser
- Flexible TCP/IP interface & control
- As-run translation job notification
- Intuitive, at-a-glance status of all translation jobs in the queue
- Enterprise quality, rack-mounted server with dual processors, RAID 5 disk array and redundant power & networking
- Fully-definable user & group access
- Extensible functionality via TaskBuilder™ translation developer's kit
- Also available as a plug-in



## CMD DataTranslator

### Job List

DataTranslator: Job List

#### Job Status

Total: 5    Running: 1    Succeeded: 50    Failed: 0    Average Run Time: 00:00:01 (hh:mm:ss)

#### Service Status

Total: 1    Running: 0    Stopped: 1    Reporting Errors: 0

#### Jobs

[Add Job](#)

On/Off	Status	Name	Description	Last Run	Next Run	Average Run Time	
<input checked="" type="checkbox"/>		<a href="#">I-235 EB TripTimes</a>	Calculate trip times along I-235 east bound	12/17/2008 11:41:15 AM	12/17/2008 11:42:00 AM	00:00:00	<a href="#">Run Now</a> <a href="#">Remove</a>
<input type="checkbox"/>		<a href="#">I-80/I-35 EB TripTimes</a>	Calculate trip times along I-80/I-35 east bound	12/17/2008 11:41:15 AM	Job is disabled and will not run.	00:00:00	<a href="#">Run Now</a> <a href="#">Remove</a>
<input checked="" type="checkbox"/>		<a href="#">Recent Data</a>	Generate recent data pdf	12/17/2008 11:40:30 AM	12/17/2008 11:42:00 AM	00:00:04	<a href="#">Run Now</a> <a href="#">Remove</a>
<input checked="" type="checkbox"/>		<a href="#">Beat the Traffic Conversion</a>		12/17/2008 11:41:00 AM	12/17/2008 11:42:00 AM	00:00:00	<a href="#">Run Now</a> <a href="#">Remove</a>
<input checked="" type="checkbox"/>		<a href="#">DM Historical Data</a>		12/17/2008 11:40:00 AM	12/17/2008 11:45:00 AM	00:00:00	<a href="#">Run Now</a> <a href="#">Remove</a>

## Technical Specifications

### Database Connectivity

- Supports the following databases:
  - SQL Server (2000 or higher)
  - Oracle (8 or higher)
  - Sybase (12 or higher)
  - mySQL (4 or higher)
  - Access (2000 or higher)
- Copies data from one table to another based on user-defined mapping
- Copies subset of data based on SQL query

### File Management

- Conversions: XML, HTML & PDF, including XSLT transformations
- Can import, export delimited text files with user-defined delimiter
- Supports Wavetronix SmartSensor Manager HD format text output
- Automatic emails to one or more addresses with exported file as attachment
- Supports automatic download or upload to/from FTP site

### Job Notification

- Supports email notification of job success or failure
- Different email settings per user—each user can be notified of success/failure of different jobs

### Task Creation

- TaskBuilder utility allows creation of tasks from any local workstation, with ability to import to and export from DataTranslator server
- Visual design mode allows clear design of complete task, using simple blocks and arrows for data flow
- Supports step-by-step testing of each task in debug mode, with immediate error reporting
- Allows new components and actions to be imported from custom modules without needing a new installation
- Allows user-defined parameters that user can choose at run-time when creating job
- DataTranslator server supports unlimited tasks; DataTranslator Plug-in supports a maximum of 2 tasks

### Trip Times

- Custom creation of trip time routes, using existing data sources
- Uses either speed or occupancy values for trip time calculation
- Supports weighted trip time values using traffic volume
- Multiple trip time outputs can be combined into XML result file

### Scheduling and Triggers

- Automatic triggering of jobs on regular interval from 20 seconds upwards

## Ordering Information

**Part Number — WX-CMD-DT**  
DataTranslator Server  
**WX-CMD-TP1**  
DataTranslator Plug-in

### Recommended Accessories

- DataCollector — WX-CMD-DCxx

## Wavetronix

**380 S. Technology Ct.**

**Lindon, UT 84042**

**Phone: 801-764-0277**

**Fax: 801-764-0208**

**E-mail: sales@wavetronix.com**

**Website: www.wavetronix.com**

- Designated start/end times for which jobs will be run
- Supports specific day/week/month designations to only run jobs on certain days of the week
- Supports file-based triggers, for jobs to start based on files in file system being added/modified/deleted
- Supports socket-based triggers for incoming messages over IP
- Supports service based jobs for continual processing and messaging, instead of only at regular intervals

### Web-based Interface

- Interface: Web-based and accessible to any user with Web browser and Internet connection.
- Information listed in interface includes:
  - Number of jobs in system, with name and description
  - Next run time of each job
  - Current status (succeed/fail) of each job
- Other operations available through interface:
  - Run task manually at any time
  - Add new jobs—selecting a task and assigning a schedule
  - Modify or delete existing jobs
  - View history of each job with success/fail markers and errors
  - Add or delete users, or change user accounts and levels of permissions
- Interface accessed through user name and password. User log-ins can have different levels of permissions for different levels of access to functionality

## Hardware Specifications

- Server: quad-core Xeon processor or equivalent
- Operating system: Windows 2003 Server or newer
- Memory: minimum 4 GB of SDRAM
- Hard drives:
  - Three or more
  - At least 72 GB each
  - RAID 5 fault tolerant
  - Hot-swappable
- Dual power supplies
- Networking: dual 1000 Mbps Ethernet network card or better
- Included software:
  - Firewall software for security
  - Remote management software for remote maintenance and upgrades
- CD-ROM drive: 24X or better
- Not included: monitor, keyboard or mouse

## Testing

- Burn-in testing for each unit
- Test period: not less than 1 week
- Testing standard: service is able to run consistently over the testing period with a representative workload
- Testing documentation provided upon request, showing the performance results over the testing period

## Support

- Delivered with 90 days of Gold Support as standard, effective after customer acceptance of the contracted system:
  - 30 hours prepaid phone technical support, same day guaranteed response
  - 2 days prepaid on-site technical support
  - Next business day on-site hardware service
  - Includes bug fixes, minor application updates, version updates, and software operation system updates
- Extended and/or upgraded support packages are available for purchase

## DataTranslator Bid Specification

**1.0 General.** This item shall govern the purchase and installation of a traffic data translation subsystem (TDTS), equivalent to the Wavetronix DataTranslator™, that is used to automate data conversion between incompatible data formats and databases including but not limited to speed maps, 511 systems, Addco® and Adaptive® Variable Message Signs or other devices as shown in the plans, as detailed in the special specifications and as directed by the engineer. Test results and other documentation demonstrating TDTS performance and capabilities shall be provided. All equipment shall include all licenses, where required, for any software or hardware in the system.

The TDMS shall also be available in a plug-in version.

**2.0 Product Description.** The TDTS shall be a server-based data translation subsystem. This system shall be an off-the-shelf ATMS subsystem appliance that makes possible the translation of traffic data formats and databases to be used by designated parties. The TDTS shall translate data types in an automated manner determined by scheduled start and stop times. Users shall be able to view status of scheduled translation jobs and receive notifications regarding job execution. SDK (Software Developers Kit) shall be part of TDTS subsystem. SDK shall make possible the creation and adjustment of translation tasks

**3.0 Database Connectivity.** The TDTS shall support the following databases:

- SQL Server (2000 or higher)
- Oracle (8 or higher)
- Sybase (12 or higher)
- mySQL (4 or higher)
- Access (2000 or higher).

The TDTS shall copy data from one table to another based on user-defined mapping.

The TDTS shall copy subsets of data based on SQL queries.

**4.0 File Management.** The TDTS shall be capable of doing conversions involving XML, HTML & PDF, including XSLT transformations.

The TDTS shall be able to import and export delimited text files using a user-defined delimiter.

The TDTS shall support the Wavetronix SmartSensor Manager HD format text output.

The TDTS shall be able to deliver exported data by sending automatic emails to one or more addresses with the exported file attached.

The TDTS shall support automatic download or upload to or from an FTP site.

**5.0 Job Notification.** The TDTS shall support email notification of job success or failure.

The TDTS shall allow for different email settings for each user, allowing each user to be notified of the success or failure of different jobs.

**6.0 Task Creation.** The TDTS shall feature a utility, equivalent to the Wavetronix TaskBuilder™ utility, that allows the creation of tasks from any local workstation. This utility shall be able to import to and export from the TDTS server.

The utility shall feature a visual design mode that allows for a clear design of a complete task, using simple blocks and arrows to represent data flow.

The utility shall support step-by-step testing of each task in debug mode, with immediate error reporting should an error be found.

The utility shall allow new components and actions to be imported from custom modules without needing a new installation of the software.

The utility shall allow user-defined parameters that the user can choose at run-time when creating a job.

The TDTS shall support unlimited tasks. The plug-in version shall support a maximum of two tasks.

**7.0 Trip Times.** The TDTS provide for the custom creation of trip time routes, using existing data sources.

The TDTS shall be capable of using either speed or occupancy values for trip time calculation.

The TDTS shall support weighted trip time values using traffic volume.

The TDTS shall be able to combine multiple trip time outputs into an XML result file.

**8.0 Scheduling and Triggers.** The TDTS shall support the automatic triggering of jobs on regular intervals of 20 seconds or more.

The TDTS shall allow users to designate start and end times for which jobs will be run.

The TDTS shall support specific day/week/month designations to only run jobs on certain days of the week.

The TDTS shall support file-based triggers, so that jobs start based on when certain files in file system are added, modified or deleted.

The TDTS shall support socket-based triggers for incoming messages over IP.

The TDTS shall support service-based jobs for continual processing and messaging, instead of only at regular intervals.

**9.0 Web-based Interface.** The TDTS shall provide a Web-based interface, accessible to any user with a Web browser and Internet connection, which will list the number of jobs in system, with the name and description of each; the next run time of each job; and the current status, either success or failure, of each job.

The Web interface will also allow the user to run a task manually at any time, add new jobs by selecting a task and assigning a schedule, modify or delete existing jobs, and view the history of each job with success/fail markers and errors.

The TDTS Web interface shall be accessed by a user name/password combination, allowing users with varying levels of privileges to access some or all of the functionality of the TDTS. The Web interface will also allow users to be added or subtracted from the system, or modified to have different permissions.

**10.0 Hardware Specifications.** The TDTS hardware shall consist of a server with a quad-core Xeon processor (or equivalent), Windows 2003 Server operating system (or newer), a minimum of 4 GB of SDRAM memory, an array of three or more RAID 5 fault tolerant, hot-swappable, hard drives of no less than 72 GB each, dual power supplies and a dual 1000 Mbps Ethernet network card or better.

The TDTS shall also be provided with firewall software for security, and remote management software for remote maintenance and upgrades.

The TDTS hardware shall not include a monitor, keyboard, or mouse, but will include a 24X or better CD-ROM drive. The server will also include a minimum two-year, next business day on-site maintenance warranty.

**11.0 Testing.** Before shipping, each TDTS unit shall have a burn-in test period of not less than one week.

The testing standard for the TDTS shall be that the service is able to run consistently over the testing period with a representative workload.

Testing documentation shall be provided showing the results from the TDTS test over the testing period upon request.

**12.0 Support.** The TDTS shall be warranted with 90 days of support, defined as follows:

- 30 hours prepaid phone technical support, same day guaranteed response
- Two days prepaid on-site technical support
- Next business day on-site hardware service
- Included bug fixes, minor application updates, version updates, and software operation system updates

Extended and/or upgraded support packages shall be available for purchase.