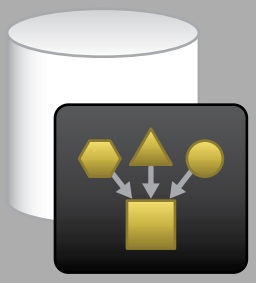
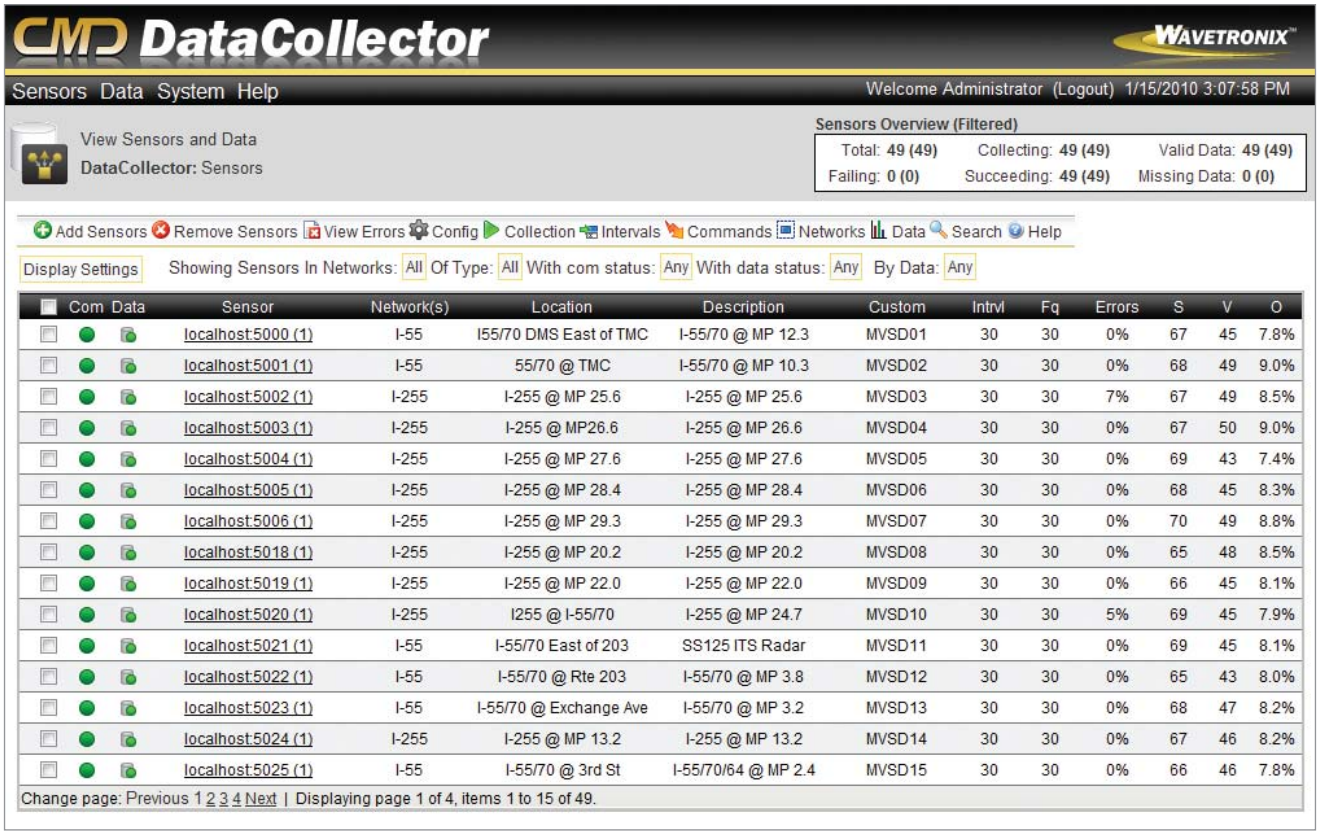
DataCollector & DataCollector Planning Edition

DataCollector™ provides robust, customizable data collection from a variety of sensor technologies. This collection is scalable up to thousands of sensors and logging devices, providing an open interface, data queries and more than 90 days' worth of data.

Features

- Easily integrates the Wavetronix SmartSensor™ and other network-accesible devices into any new or existing ATMS environment
- Contains a broad library of drivers for some of the most commonly used traffic detectors, including these:
  - SmartSensor V and HD
  - Autoscope SoloPro/Terra cameras
  - 3M™ Canoga™ Microloops
  - EIS RTMS™
  - Diamond Traffic Counters
  - Mikros Data Loggers
- Gathers real-time data from traffic detection devices at intervals as frequent as 20 seconds
- Web interface lets users see the status of all sensors on a single page viewable on any networked PC
- Exports data as user-defined sets viewable as grid, graph, XML or text
- Capable of managing all 13 FHWA vehicle classes
- Also available in Planning Edition, which allows for more sensors





Com	Data	Sensor	Network(s)	Location	Description	Custom	Intrvl	Fq	Errors	S	V	O
		localhost:5000 (1)	I-55	I55/70 DMS East of TMC	I-55/70 @ MP 12.3	MVSD01	30	30	0%	67	45	7.8%
		localhost:5001 (1)	I-55	55/70 @ TMC	I-55/70 @ MP 10.3	MVSD02	30	30	0%	68	49	9.0%
		localhost:5002 (1)	I-255	I-255 @ MP 25.6	I-255 @ MP 25.6	MVSD03	30	30	7%	67	49	8.5%
		localhost:5003 (1)	I-255	I-255 @ MP26.6	I-255 @ MP 26.6	MVSD04	30	30	0%	67	50	9.0%
		localhost:5004 (1)	I-255	I-255 @ MP 27.6	I-255 @ MP 27.6	MVSD05	30	30	0%	69	43	7.4%
		localhost:5005 (1)	I-255	I-255 @ MP 28.4	I-255 @ MP 28.4	MVSD06	30	30	0%	68	45	8.3%
		localhost:5006 (1)	I-255	I-255 @ MP 29.3	I-255 @ MP 29.3	MVSD07	30	30	0%	70	49	8.8%
		localhost:5018 (1)	I-255	I-255 @ MP 20.2	I-255 @ MP 20.2	MVSD08	30	30	0%	65	48	8.5%
		localhost:5019 (1)	I-255	I-255 @ MP 22.0	I-255 @ MP 22.0	MVSD09	30	30	0%	66	45	8.1%
		localhost:5020 (1)	I-255	I255 @ I-55/70	I-255 @ MP 24.7	MVSD10	30	30	5%	69	45	7.9%
		localhost:5021 (1)	I-55	I-55/70 East of 203	SS125 ITS Radar	MVSD11	30	30	0%	69	45	8.1%
		localhost:5022 (1)	I-55	I-55/70 @ Rte 203	I-55/70 @ MP 3.8	MVSD12	30	30	0%	65	43	8.0%
		localhost:5023 (1)	I-55	I-55/70 @ Exchange Ave	I-55/70 @ MP 3.2	MVSD13	30	30	0%	68	47	8.2%
		localhost:5024 (1)	I-255	I-255 @ MP 13.2	I-255 @ MP 13.2	MVSD14	30	30	0%	67	46	8.2%
		localhost:5025 (1)	I-55	I-55/70 @ 3rd St	I-55/70/64 @ MP 2.4	MVSD15	30	30	0%	66	46	7.8%

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CMD™ DATA APPLIANCES

WX-500-0084

Technical Specifications

Traffic Data Collection

- Number of sensors that can be collected from:
  - DataCollector: 25, 50 or 100
  - DataCollector Planning Edition: 200, 350 or 500
- Collection frequency:
  - DataCollector: 20 seconds or greater
  - DataCollector Planning Edition: 1 hour or greater
- Retries in case of communication error: 5
- Gap-free data collection ensures that every available data entry is retrieved
- Displays current data status and communication history for each sensor

Sensor Management

- User can start and stop collection from individual sensors
- Maintains separate configurations settings for each individual sensor, including collection frequency and time zone
- Allows users to quickly run commands or change settings by performing batch jobs on selected sensors

Data Storage

- Storage: SQL database
- Storage length: minimum 8 days of sensor intervals (if less than 5 minutes); 90 days for 5-, 15- and 60-minute data
- Stored information:
  - Volume, occupancy, classification, speed, gap, headway, and 85th percentile speed of each lane for each interval
  - Flow direction for each lane
  - Speed bin data
  - Direction bin data
  - Sensor configuration history to retain data integrity even after lane or other configuration changes occur

Configuration Information

- Automated timer system automatically retrieves configuration information from each sensor at user-defined intervals
- Manual option lets user retrieve configuration information from each sensor or a group of sensors at any time
- Changes to sensor configuration saved in database automatically

Time Synchronization

- Automatically synchronizes time of each sensor to server time at user-defined intervals and as time discrepancies are detected
- Manual option lets user synchronize one or more sensors at any time
- Time system handles sensors in different time zones

Ordering Information

Part Number — WX-CMD-DC25
Server 25 sensor capacity

WX-CMD-DC50
Server 50 sensor capacity

WX-CMD-DC100
Server 100 sensor capacity

WX-CMD-DC-ENTP
Server large sensor network capacity

WX-CMD-SP50
50 sensor license pack plug In
(Real time)

WX-CMD-DCP200
Planning Edition 200 sensor capacity
(Non-real time collection)

WX-CMD-DCP350
Planning Edition 350 sensor capacity
(Non-real time collection)

WX-CMD-DCP500
Planning Edition 500 sensor capacity
(Non-real time collection)

WX-CMD-SP200
Planning Edition 200 sensor license pack plug-in (non-real time)

Recommended Accessories

- DataMonitor Plug-in — WX-CMD-MP1
- DataCollector Reporting Pack — WX-CMD-RP1

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Data Reports

- Graphs any data field for a sensor
- Creates reports in XML, text, or SSM HD format
- Validation report provides quick verification that all data have been stored in the database.
- View data in table form that can be customized and then saved in Excel, XML, or text format.

Automated Data Exports

- Data exportation formats: TMDD, XML, tab-delimited text
- Data exportation intervals: 30 seconds or greater

Communication

- Supported communication:
  - Standard TCP/IP-based networks
  - Serial communication by communicating via a serial to TCP/IP converter
  - Communication over phone line via modem
- Collects data from multiple sensors on a single serial communication channel
- Addresses a sensor by either IP address or host name

Upgradeability

- Allows additional drivers to be added for sensor protocols other than the ones already installed
- Addition of new drivers doesn't require reinstallation or recompilation of software or reboot of computer

Web-based Interface

- Interface: Web-based and accessible to any user with Web browser and Internet connection
- Information listed in interface includes:
  - Sensors attached to DataCollector
  - Sensor status
  - Sensor configuration
  - Snapshot of recent data packets
- Other operations available through interface:
  - View data queries
  - Perform manual operations such as time synchronizations, configuration updates, or data collection
  - Set the timers for automated tasks
  - Add or remove new sensors to DataCollector
  - Add or remove users and change user priveleges
  - Arrange sensors into groups, which can be assigned by user
- Interface accessed through user name and password. User logins can have different levels of permissions for different levels of access to functionality

Testing

- Burn-in testing for each unit
- Test period: not less than 1 week
- Testing format: unit is installed and connected to maximum number of sensors with all automated timers running
- Testing standard: unit is able to run consistently over the testing period, collecting data from each of the sensors attached to it at the specified data collection interval for each unit (20 seconds or greater)
- Testing documentation provided upon request, showing the results from the DataCollector over the testing period

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

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