## Vehicle Tracking and Communications Platform

# The LOCATOR Series

The Webtech Locator is a feature-rich device at the heart of WebTech's Quadrant Vehicle Services System. WebTech's Locator provides vehicle monitoring capabilities 24 hours a day, 7 days a week. Locators are fully configurable over-the-air and are remotely supported.

The WebTech Locator Series supports the following features:

- GPS-based location and status reporting on GSM/GPRS networks
  - Store and forward capabilities - store up to 1000 records
  - Improved GPS-based location accuracy (WAAS)
  - Real-time vehicle tracking and status monitoring
  - GPS antenna disconnect alarm (WT5000 only)
- Multiple geofences on specific landmarks/locations
  - Up to 60 geofences can be set up for each vehicle
  - Receive alerts when vehicle enters or exits specifically-defined geofences
- Over-the-air configuration and software upgrades
  - Modify your locator functionality quickly and easily
  - Receive the latest software upgrades quickly and cost-effectively
- Internet access over GSM/GPRS/EDGE
  - Supports end-to-end Internet-based applications on laptops or PDAs
  - Provides an "always-on" high speed GPRS connection
- Telemetry Port
  - Vehicle monitoring and control capabilities (door lock/unlock, temperature sensing, engine immobilization, panic buttons) (Standard on WT5000, Optional on the WT6000)

The WebTech Locator Series also supports the following options:

- Internal Battery
  - Support asset and trailer tracking applications, auto-recharging capability
- J1708 Capability (on WT6000 only)
  - Integrate vehicle data into enterprise systems for maintenance and logistics planning
- Navigation
  - Gain access to voice directions and in-vehicle mapping with a Windows Mobile Device
- Voice (on WT6000 only)
  - Access voice connectivity with hands-free voice kit


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### Certification

- PTCRB/FCC/IC
- UL/CSA/CE/E Mark

### Networks Supported

- GSM/SMS/GPRS/EDGE
- GSM/SMS/GPRS 850/ 1900 MHz or 900/1800 MHz

### Physical Specifications - WT6000

- Dimensions - 105 x 95 x 42mm (4.3" x 3.75" x 1.63")
- Weight - 360g (12.6oz)

### WT5000:

- Dimensions - 105 x 95 x 30mm (4.3" x 3.75" x 1.182")
- Weight - 125 g (4.408 oz)

### Power Specifications - WT6000:

- Power - Input Voltage - 9 - 36 VDC
- Current - Transit 1000 mA (maximum bursts)
  - Standby (receive) - 150mA
  - Sleep (ignition) - 15mA

### WT5000:

- Power - Input Voltage - 9 - 36 VDC
- Current - Transit 1000 mA (maximum bursts)
  - Standby (receive) - 100mA
  - Sleep (ignition) - 10mA

### Environmental - WT6000:

- Operating Temperature: -30°C to + 60°C
- Storage Temperature: -40°C to +80°C
- Humidity: 95% max (non-condensing)

### WT5000:

- Operating Temperature: -30°C to + 70°C
- Storage Temperature: -40°C to +80°C
- Humidity: 95% max (non-condensing)

### Connectors - WT6000:

- RS-232- DCE - DB-9 connector
- Power - 3 wire (ignition, battery, ground)
- RF - SMA (female)
- GPS - SMC
- GPS Disconnect Detection
- Extend Battery Disconnect Detection

### WT5000:

- RS*232 - DCE - DB-9 connector
- Power - 3 wire (ignition, battery, ground)
- RF - SMA (female)
- GPS - SMS
- GPS Disconnect Detection
- Extend Battery Disconnect Detection

### Interoperable Devices - WT6000:

- Windows XP
- Windows Mobile
- WebTech Mobile Data Terminals

### WT5000:

- Windows XP
- Windows Mobile
- WebTech Mobile Data Terminals

### Antennae - WT6000:

- GPS Active Antenna
- Standard RF Antenna 1/4 wave stubby

### WT5000:

- GPS Active Antenna
- Standard RF Antenna with 1/4 wave stubby

### Protocols - WT6000:

- PPP on Serial Port, to 57.6k baud
- NMEA on Serial Port

### WT5000:

- PPP on Serial Port, to 57.6 baud
- NMEA on Serial Port

### Included - WT6000:

- GSM Antenna
- GPS Antenna
- Installation Manual

### WT5000:

- GSM Antenna
- GPS Antenna
- Installation Manual

### Hardware Options - WT6000:

- Telemetry Port & Cable
- Voice Port
- Internal Lithium Polymer Battery (1800mA hour)
- J1708 interface
- Interface to Satellite Modem Controller
- Extended Memory Trip Recorder

### WT5000:

- Telemetry Port & Cable
- Internal Lithium Polymer Battery (1800mA hour)

### Optional Accessories - WT6000:

- Panic Button (in-vehicle/remote)
- Hands Free Kit (voice)
- External Roof Mount (RF & GPS Antennae)
- Temperature Sensor

### WT5000:

- Panic Button (in-vehicle / Remote)
- External Roof Mount (RF & GPS Antennae)

### Telemetry Option - WT6000:

- DB-15 Connector (6 digital outputs, 6 digital inputs)
- 15 A Relay with Blade Connectors
- Analog to Digital Converter 8 bit Resolution

### WT5000:

- 2 Digital Inputs, 2 Digital Outputs



# QUADRANT™

## WIRELESS VEHICLE SERVICES

WebTech WIRELESS

- Maximize the use of your assets
- Optimize Schedules
- Arm your employees with the tools they need to better manage their time
- Eliminate manual paperwork and enjoy accurate calculations for a range of back-office operations
- These are just a few of the benefits Quadrant can provide your organization.....

## QUADRANT

Quadrant is a wireless vehicle services system that provides users with GPS-based location information in real-time for efficient fleet management. Offered on a scaleable platform that allows for a wide range of future enhancements, Quadrant provides mapping, reporting and messaging capability designed to help organizations lower administration costs while increasing their productivity.

Quadrant enables fleet managers and dispatchers to unify their fleet operational data into one easy to use command center. Fleet managers are able to connect their fleet to back-office applications, providing instant access to collected data, confirming delivery or accepting payment that can reduce unnecessary paperwork.

With Quadrant, your organization has the potential to realize significant return on investment through increased productivity for drivers and reduced transportation operating costs.

### How it works:

The WebTech Locator is at the heart of the Quadrant Fleet Management System. Installed in each individual vehicle, the locator provides all the field data required to improve your operations.

More than a vehicle tracking system, Quadrant provides a wide range of fleet management solutions including: automatic vehicle location, mapping, reporting, vehicle maintenance, driver status, in-vehicle telemetry, messaging, and Internet connectivity, bringing together every piece of critical fleet data and delivering it to your back office.

Vehicle data gathered by the WebTech Locator is transmitted to the WebTech Operations Center via wireless networks. From the operations center, managers have access to critical information through a web interface. Any internet-enabled PC has password access to Quadrant Online where access to services such as GPS fleet tracking and two-way messaging are available.

## The Advantages of WIRELESS FLEET MANAGEMENT

Being able to access more than just location data can provide an organization with the ability to not only **remain competitive** in today's aggressive marketplace, but to do so while **providing a superior level of customer service**.

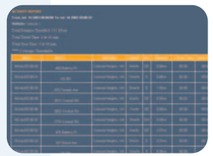

**www.webtechwireless.com**

## Mapping:

Utilizing Microsoft's MapPoint® software, Quadrant offers a comprehensive mapping solution for quick and efficient vehicle location applications such as determining the nearest vehicle to a specific location and viewing the history of a vehicle. Running locally on your PC, WebTech's Mapping Client ensures faster mapping than pure web-based solutions that use up bandwidth by sending information over the web.

## Command Center/Activity Reports:

Automatically access all fleet location and vehicle usage data providing in-depth activity reports and enable the verification of a wide range of fleet activity from business mileage reporting to "on-the-job times". Reports include Activity, Driver Status, Landmark, Geofence, Vehicle Status, Vehicle Maintenance, Telemetry, Exception, Speeding and more.

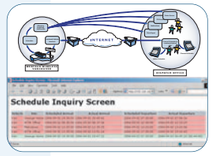


## Landmark Reports:

Landmark reports provide data critical to optimizing business practices that range from more effective routing to more accurate customer billing. Determine both driver and routing efficiency by analyzing the length of time a specific trip takes. Comparisons can be made against other drivers as well as different times throughout the day. Landmark reports may also be used to gauge stop times at customer sites - key for accurate billing.


## Schedule Adherence

Schedule Adherence provides the ability to track how well a vehicle adheres to a planned schedule and issue alerts whenever a vehicle deviates from the plan. Users can build schedules using their in-house planning system and upload to Quadrant with ease. Notifications such as "behind schedule", or "stopped too long" can be sent to an SMS phone or email address to alert the Dispatcher of any deviations.




## Messaging and Paperless Reporting:

Communicate with mobile workers and eliminate unnecessary paperwork and forms using mobile data terminals, Personal Digital Assistants (PDAs) or laptops. Establish a real-time connection to your back office for invoicing, inventory or customer lookup.

## Geofences:

Automatically receive notifications when your vehicles travel in and out of user-defined boundaries. Geofences can supply the user with details such as when the Geofence boundary was entered, the length of time the vehicle remained within the Geofence, as well as the exit time.

## Telemetry:

Provide a higher level of safety to your employees with vehicle telemetry, in the form of a remote panic button for summoning assistance, or even an ignition disabling function to prevent unauthorized usage or vehicle jacking threats. Other telemetry options inlcude PTO, lights, horn, brakes, remote door lock, remote engine kill and temperature sensing.

## Protect Your Investment:

Over-the-air upgrades to the vehicle ensures that your system can grow with your company's changing requirements.

## Back end Integration:

Streamline business practices by integrating with your back-end systems. Automatically feed location and messaging data into systems such as payroll and dispatching for more efficient payroll processes and access to real-time logistics.

## How QUADRANT Can work for YOU!

Trucking organizations can make use of Quadrant's Landmark reporting to analyze the duration of travel routes at different times throughout the day - better utilizing their assets, knowing the best time of day to schedule a route and understanding the exact number of vehicles required for each day's manifests.

Food transportation companies can utilize Quadrant's telematics capabilities to measure trailer temperatures for consistent delivery of frozen food items.

Fleet Owners can use Quadrant's location information to monitor vehicle routes from start to finish and plot performance against company predetermined plans.

Service companies can use a myriad of Quadrant's reporting capabilities from Landmark Reporting for route information to driver and vehicle status reports, ensuring their employees are armed with the tools and information they need to better manage their time.

Transportation organizations can replace the need for manual paperwork entry as well as accurately calculate off-road mileage for reclaiming tax on fuel usage.

These are just a few examples of how Wireless Fleet Management Solutions can help to improve profitability. Enjoy more efficient route scheduling and more efficient use of resources to positively impact your bottom line. Save money with accurate reporting and the elimination of manual driver entries. Quadrant can provide opportunities for operational efficiencies and positive bottom-line results, each uniquely suited to each organization's needs.

- "I would estimate we're saving approximately one hour of manpower from one person per day, which is quite significant."
  Steve Blinco, Vice President of Operations, Strone (Construction)

- "It's about operational performance and the opportunity to correct obstacles to productivity and efficiency"
  Joe Suehle, Director Baltimore Gas and Electric's Materials Distribution Section

- "With a fleet management solution in place, we are in better control of our vehicles."
  Molly Mangan, Business and Information Services , City of Chicago