



Trident AVL Solution

Track vehicle location and speed using your existing radio network.

The Trident AVL solution from Motorola, TrAVL[®], provides the ability to track mobile radio users and their vehicles throughout the radio system coverage area.

TrAVL enables vehicle tracking of selected two-way mobile radios over Trunked and Conventional systems. It provides GPS vehicle position, speed, and direction of travel for each enabled unit on the radio network. Improved vehicle management and location tracking helps increase productivity and employee safety.

TrAVL integrates seamlessly and operates transparently, lowering transportation costs and letting mobile employees concentrate on their job.

Protect your IT investment. Or don't make one.

The Motorola vehicle tracking solution provides two flexible options to best match your IT investment. The TrAVL software application and mapping can integrate with many IT systems and fleet management databases to provide maximum flexibility and return on IT investment. Customers can track their vehicles, view historical data,

reconstruct travel routes, manage fleet operations, and store and mine geographical data however they see fit.

But not all customers choose to install their own IT systems. With the TrAVL Web Access service, tracking vehicles and personnel is as easy as opening a web browser. Up-to-date local maps and easy navigation let you stay informed of vehicle positions and movement, on your PC or mobile device. All without having to purchase or support servers or software, or provide new training for your dispatch and support personnel.



The TrAVL module is easy to install. It includes the radio and AVL interface, GPS receiver, and antenna.



Applications

- **Utilities**
 - Quickly respond to service requests by knowing the location of your vehicles
 - Leverage TrAVL telemetry to manage remote power sites
- **Local Trucking and Delivery**
 - Track the progress of your shipments and advise customers of status
 - Leverage TrAVL telemetry to manage the vehicle condition, equipment and status
- **School Buses**
 - Identify the location of a student's bus
- **Small Municipalities**
 - Provide an additional level of driver safety and security
- **Waste Management**
 - Monitor driver productivity and route adherence
 - Leverage TrAVL telemetry to manage remote lift/pump stations
- **Taxi Services**
 - Efficiently dispatch the nearest taxi to the customer

Key Features / Benefits

Feature	Description	Key Benefits
Integrated into the Network	<ul style="list-style-type: none"> • No call setup (handshake) is required to transmit data • Part of the network; not an add-on solution 	<ul style="list-style-type: none"> • Data can be transmitted more quickly, tying-up fewer system resources • Implementation is more seamless
Polled Environment instead of Report by Exception	<ul style="list-style-type: none"> • Eliminates collisions between voice and data subscribers • Allows the network to control data 	<ul style="list-style-type: none"> • Add more data subscribers to the channel without jeopardizing system capacity • Implementation is more seamless
Use of same radio for both voice and data	<ul style="list-style-type: none"> • Does not require a dedicated radio for data • Data is transmitted using a non-voice group ID, so the channel appears busy to other voice users 	<ul style="list-style-type: none"> • Users won't hear data transmitted because data is transmitted using a non-voice group ID • User does not have to switch to a specific channel or talk groups for data, which makes operation transparent and easy • Reduces cost: one radio can communicate both data transmissions and voice calls
Choice of mapping applications	<ul style="list-style-type: none"> • Display maps using your own IT systems, or use the TrAVL® web-based tracking service 	<ul style="list-style-type: none"> • Customers can choose the mapping solution best suited to their budget and needs

TrAVL System Diagram

