

Summary

As a customer you have various reasons for considering the use of a GPS based system, from simply monitoring vehicle over speeds, to complete integrated business solutions based around field service personnel. Navman in conjunction with Telstra provides a cost effective means for any service organization or fleet operator regardless of their size, to monitor and manage their personnel, equipment or cargo based on real time information.

All prices listed are Exclusive of GST

Main benefits achieved on implementation

- Visibility of vehicles at all times
- Improved dispatch and job allocation
- Actual vs planned analysis capability
- Substantiate installation, service, trip times and delays
- Substantiate loading and unloading times
- In vehicle navigation



Navman OnlineAVL Software

As part of the in vehicle hardware purchase price the OnlineAVL software is included at no additional expense. This will be a management tool supplementing your business processes, policies and practices that provides exceptional reporting standard. Real time vehicle positional updates will be visible along with the actual street name or customer site name at all times. The software can be installed on any number of Windows based machines within or outside the offices themselves.

As the software is web client based no networking or additionally hardware will be required. Virtually any PC with internet access will be able to view relevant information on the vehicles.

Standard reporting incorporates:

- | | |
|------------------------|-----------------------------------|
| ■ Over speed Report | Zone specific speed violations |
| ■ Idle Report | Service delays |
| ■ Customer site report | Installation & service times |
| | Loading & unloading times |
| | Slot times & demurrage |
| ■ Mileage report | Maintenance scheduling |
| | Work allocation & distribution |
| ■ Activity report | Vehicle replay analysis |
| ■ Stop report | Location & duration of every stop |
| ■ Trip report | Drivers run sheet |
| | Planned Vs actual analysis |



Navman In-vehicle hardware

The Navman hardware provides the data connectivity or medium for communications between the vehicle and the Navman server via the Telstra CDMA or GPRS network. It is also the medium utilized by any other in vehicle peripheral device that may be required in the future as part of your business, such as a PDA. Regardless of the number of devices only the one existing SIM will be required. The Navman hardware becomes the hub where all information is routed through.

Halo Qube

The Halo Qube actually allows your business processes to be incorporated with vehicle tracking and monitoring. Available in both Telstra GSM or CDMA to provide the best match to your application and needs.

Mounting of either unit is always discrete, normally concealed within the dash of the vehicle itself. Only three electrical connections are required for any installation, a battery supply, ground along with ignition.



Mobile Data Terminal

This will allow for online job dispatch, freight management and driver ID. Any message can be sent from the Navman OnlineAVL software to a vehicle or grouping with certainty. Message receipt confirmation is indicated along with a complete itemised log of all messages sent with the associated driver response. The OnlineAVL software automatically indicates what vehicles are in the closest proximity to any new job at the click of a button.



In excess of 40 preprogrammed driver responses can be stored with functionality for numeric entering. This allows for delay times or work order numbers etc to be manually entered by a driver. An external keyboard is also possible for free form input.

ConEX



Navman provides this unit as a standard means of interface to vehicle peripheral devices in our CDMA Qube. It provides functionality if required such as analogue and digital inputs/outputs along with the serial ports RS232 and RS485. A PDA, temperature or weight monitoring are just some examples of peripherals that can be monitored using these serial ports.

Digital inputs can be used for PTO, gantry or bitumen burner etc

Navigation M-Nav

In-vehicle navigation system that is easy to use. Providing voice assisted instructions and automatic mapping, linked to a destination and job details. This unit incorporates the Navman MDT functionality with navigation. Just send the job details to the vehicle via the Navman Online AVL application real time. The driver will have these details plus location automatically. No more uncertainty.



Navman Installation

Installation would normally take place at your depot within normal business hours. Installation can take up to three hours per vehicle. Depending on the rollout plan other arrangements can be made so multiple vehicles can be seen simultaneously at the one point.

Navman Fleet Manager Services

This management services fee includes the GPRS/CDMA data, national street level mapping updates, OnlineAVL software updates, unlimited user license, Navman server maintenance, support and warranty etc. The Online AVL management service fee varies slightly depending on whether CDMA or GPRS data is utilized. Functionality also exists to customize your own reports or integrate into your existing back end systems via the Navman API.

Customisation Functionality

As a Navman client all protocols are provided to enable access to the OnlineAVL server database specific to your application. In this way all information within the database is accessible to be utilized for tailored reports, interface into back end software applications or other databases.

