

Trailer Management Solution

Ayantra - a leading developer of remote asset management products - has created a unique solution tailored for managing Trailers.

The Challenge:

Fleet managers understand that they must always know certain basic facts about each trailer, such as:

- ❖ Where is the trailer located ?
- ❖ Is it currently tethered to a tractor, or is it un-tethered ?



Unfortunately, current methods for monitoring trailers are often expensive, inefficient, time-consuming, or error-prone. As a result, many enterprises lose a significant portion of their fleet value due to abuse, under-utilization, misplacement, or even theft.






Managing a fleet of out-of-sight trailers can be a daunting task - but Ayantra can help.

The Solution:

Ayantra's FleetTrailer is a cost-effective wireless monitoring solution that enables organizations to easily manage their trailers, whether they are tethered to a tractor or not. The total solution consists of:

-  An Ayantra monitoring unit - called the MAT 500T - installed on the trailer. The MAT 500T will monitor the status of the trailer and will immediately send a message each time that the trailer is tethered to a tractor, and each time the trailer is un-tethered from a tractor.
-  An Ayantra-provided website to deliver Location Reports, History Logs, and other management info.

Web Services:

-  All reports and alerts are accessible through a simple web interface. The latest report from each trailer is immediately displayed upon login.
-  The web interface is powerful, intuitive, and easy to use.
-  A History Log reports all communications to and from each vehicle.

Hardware Specifications:

- ❖ Physical: 5" x 3.5" x 1.4"
- ❖ Power: 8 - 32 volts DC
- ❖ Built-in back-up battery
- ❖ Power Draw:
 - Tethered: 70 mA (typ) @ 12V
 - Un-Tethered: none (internally powered)
- ❖ Environment:
 - Operating: -20°C → +60°C
 - Storage: -45°C → +85°C
- ❖ Humidity: 0 - 95 RH @ 40C
- ❖ Data Port: RS-232



Trailer Management Solution


Features & Benefits:


Status Alerts

The monitoring unit will immediately report each time that the trailer is tethered to a tractor, and each time that it is un-tethered from a tractor. Each report includes the trailer's location.

Two Modes of Operation

Responding to the status of the trailer, the monitoring unit will operate in two modes:

 **Tethered Mode:** the monitoring unit will accept power from the tractor's electrical system, and will send regularly-scheduled Location Reports every fifteen minutes. While in its Tethered Mode, the unit can be polled at will by authorized users, thereby allowing them to gain "up-to-the-minute" updates at any time.

 **Un-Tethered Mode:** the monitoring unit will operate by using its built-in battery, and will send a new Location Report every seven days for a period of up to four weeks. The unit cannot be polled while in its Un-Tethered Mode.

Location Reports

All reports include Location information, including detailed maps. Users can select either a "Street View," "Satellite View," or a "Hybrid View" (Satellite plus Street). In some cases a "Bird's Eye View" is also available.

On-Demand Location Reports

Users can command the remote monitoring unit to send an up-to-the-minute Location Report at any time while the Trailer is tethered. The On-Demand Location Reports enable fleet managers to ascertain the location of any tethered trailer, at any time.

Tracking Reports

The Ayantra solution retains all Location Reports in its database. These reports can be viewed at will, enabling users to easily track each Trailer's location over any period of time. The Tracking Reports can be used to improve Customer Billing, for Project Management, and for other applications.

History Log

All communications to and from the remote monitoring unit are retained in a History Log, which enables users to easily review how each trailer has been used.

