



Enabling Global Connectivity



# iRAMS

## Intelligent Remote Asset Management System

AST iRAMS is a ground breaking, proven vessel management information system which has been specifically designed for wind farm service vessels.

Availability of spatial and engine data presented in real time can assist any operator with more efficient and cost effective vessel management.

The cost reduction impact of planned maintenance, risk reduction, monitoring, reduced administrative time and fuel savings are considerable.

- Monitors a wide range of engine parameters
- Comprehensive tracking and geo-fencing capabilities
- Uses GSM (primary) and satellite (fail over) short burst data to connect to the vessel
- Real time information displayed to the operator on shore
- All information gathered is archived for analysis
- Data can be used to populate the AST Preventative Maintenance System, or to update a third party system
- User defined data collection frequency
- User defined alarm alerting via SMS and e-mail
- Comprehensive standard and user defined reporting of data in single and dual mode



[www.theastgroup.com](http://www.theastgroup.com)

## Engine Parameters

iRAMS connects to the engines CAN bus to provide a remote, near real time view of exactly how the vessels engines are performing via an interactive GUI.

Alerts are sent via SMS or e-mail when an engine reaches one of the programmable parameters.

The standard display includes:

- Speed and heading information
- Total fuel used
- Fuel burn rate
- Throttle position
- Engine torque
- Engine boost
- Engine load
- Engine running hours
- RPM
- Coolant temperature
- Exhaust temperature
- Oil pressure
- Mains battery voltage

Data capture from the vessel can be customised in-line with customer requirements and budget parameters.

## Monitor & Track

iRAMS can monitor and track a single vessel, or an entire fleet. Geo-fences can be configured to alert when a vessel leaves, or enters a certain area.

This has many benefits from an operational point of view and could have a benefit to the insurance costs of your fleet. If a vessel moves at 2am for example this could indicate theft or un-authorised use. Tracking reports can be produced over a user definable set of dates to view voyage details and engine data at all reporting intervals.

The secure online GUI can be accessed from any location, on any device, e.g. laptop, tablet, mobile phone, to view near real time information.

## Extensive & Detailed Reporting

AST has invested significant time in designing an extremely informative reporting portal that is designed to provide you with important information that can have real cost saving and operational benefits to your fleet.

Users can run reports over user definable time periods on each individual parameter, or choose from one of our pre-set comparison reports, e.g. engine hrs v fuel consumption.

These reports can offer detailed information that can be used to win tenders and identify potential problems with the engines and aggressive use of the engines which can have disastrous and expensive consequences.

The ability to compare a vessels performance against published manufacturer data could also highlight an issue with engine performance.

## Preventative Maintenance

- Systems developed over 16 years of experience operating vessels at sea
- Records wide range of systems critical information from Engine Servicing to certificate expiration
- Traffic light systems to highlight in amber/red parameters that are approaching critical
- Integrates with iRAMS for automatic updates where possible

