



Satellite Asset Monitoring Solutions

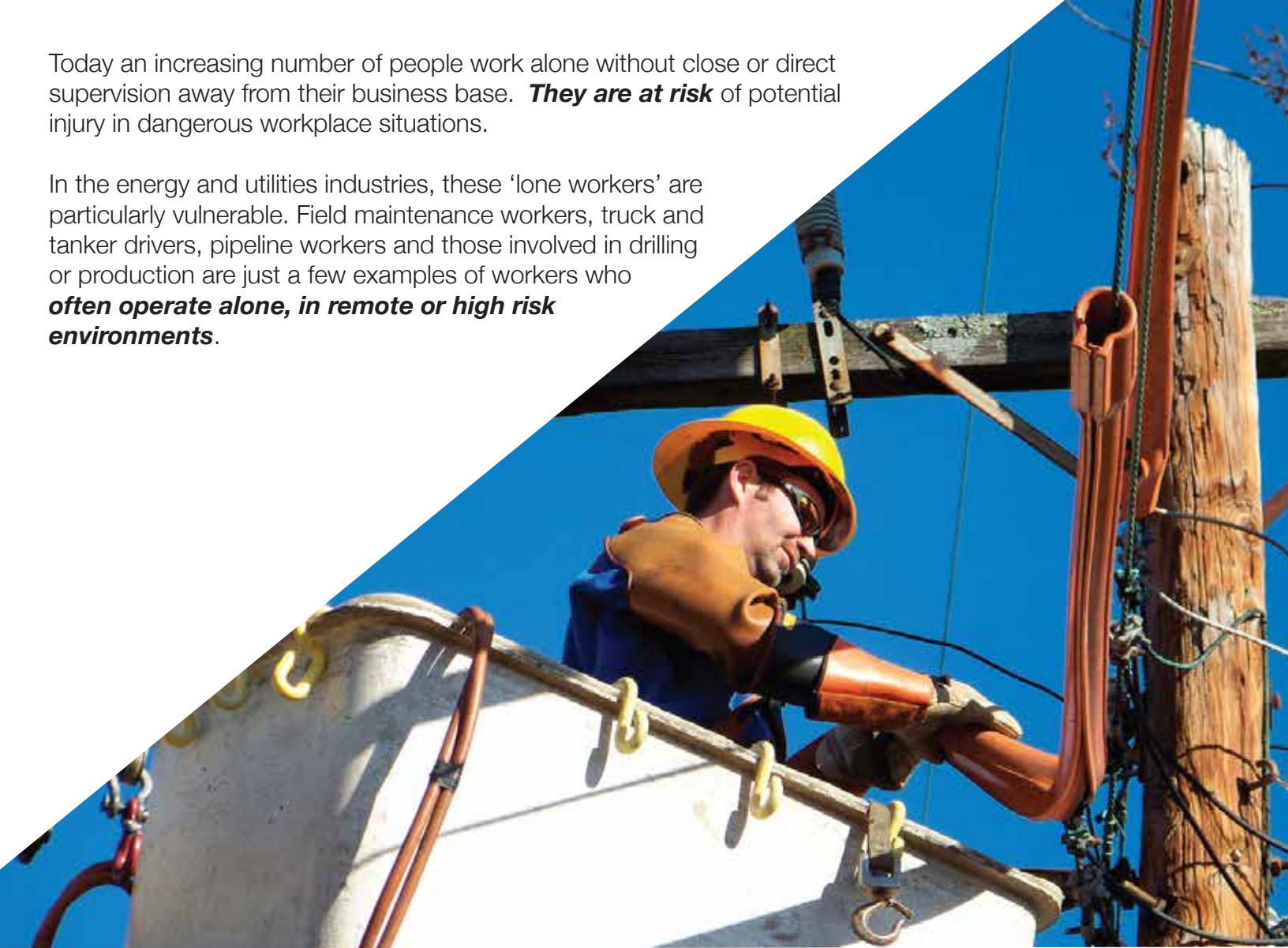


WORKER PROTECTION

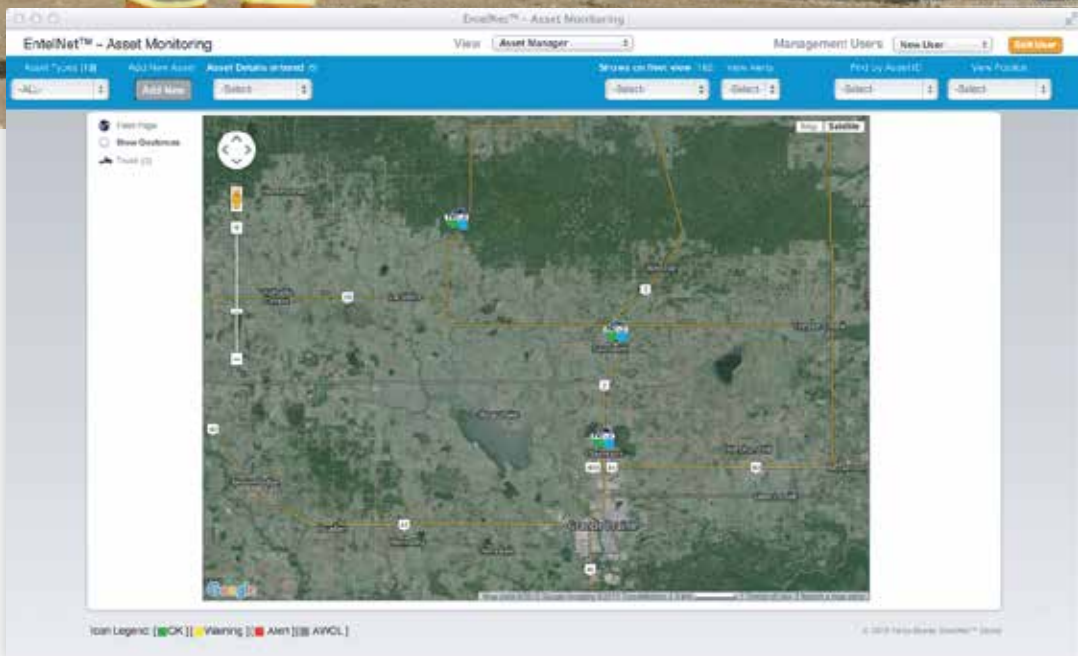
RUGGED. REMOTE. RELIABLE.

Today an increasing number of people work alone without close or direct supervision away from their business base. **They are at risk** of potential injury in dangerous workplace situations.

In the energy and utilities industries, these 'lone workers' are particularly vulnerable. Field maintenance workers, truck and tanker drivers, pipeline workers and those involved in drilling or production are just a few examples of workers who **often operate alone, in remote or high risk environments.**



- No matter what safety or security measures are put in place, accidents and incidents can occur and ***you may not know immediately if a worker is in trouble or needs urgent assistance.***
- Employers in the energy and utilities industries ***need to provide comprehensive support to lone workers to fulfill their legal duty of care*** and ensuring peace of mind for everyone concerned.
- However, ***keeping valuable employees safe from a distance is a challenge.***



Whether there is a team of lone workers, a fleet of field workers who visit the office infrequently, shift workers employed in large facilities or senior managers required to visit politically unstable or volatile areas, **Faria Beede EntelNet™ can help you meet these challenges.**

EntelNet™

A satellite-based wireless monitoring, communications and tracking system integrating GSM Cellular, Iridium Satellite, Wi-Fi and GPS with radio communications technologies plus the Internet to provide real-time information about the status and location of vehicles and workers.





EntelNet™

M2M Cloud

A web served application, no need for internal servers or IT Management, all that's needed is an Internet connection and staff can access equipment real-time across town or across a continent.

Safe

The EntelNet™ M2M (Machine-to-Machine) cloud is built to a 2N standard

- There are no single points of failure that could impact the main production infrastructure or its fail over
- The Windstream collocation facility features a state-of-the-art Network Operations Center, advanced security and monitoring systems, sophisticated fire suppression systems and redundant utility transformers, generators, Automatic Transfer Switches (ATS), main switch panels, UPS's and PDU's delivering the highest level of security, safety, redundancy, reliability, scalability and technology.

99.99% service level.

Guaranteed!

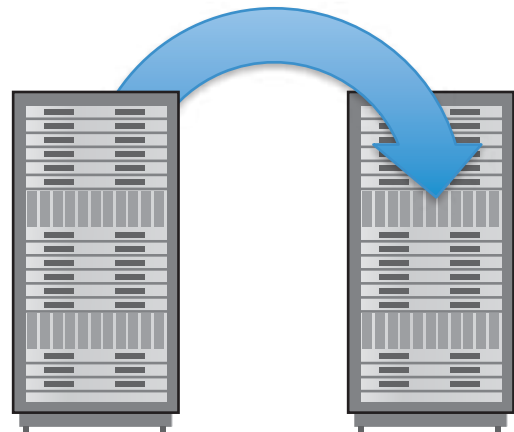
Where Is It Located?

The EntelNet™ M2M Cloud is co-located in Windstream's SSAE 16, SOC 1 Type II compliant data center in Boston, MA and offers unmatched security and reliability for mission critical applications and systems

Secure

In the unlikely event of a service stoppage a redundant back up Type II data center in Atlanta, GA provides service.

Faria Beede takes measures to secure the servers and their content and has met the US Department of Commerce's stringent requirements for the security of the servers and data content/storage.

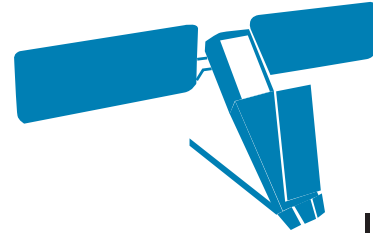


How it works

The Alert message and GPS position, is sent to the cloud using...

- Iridium® satellite
- Also available with
- GSM/GPRS 3G cellular

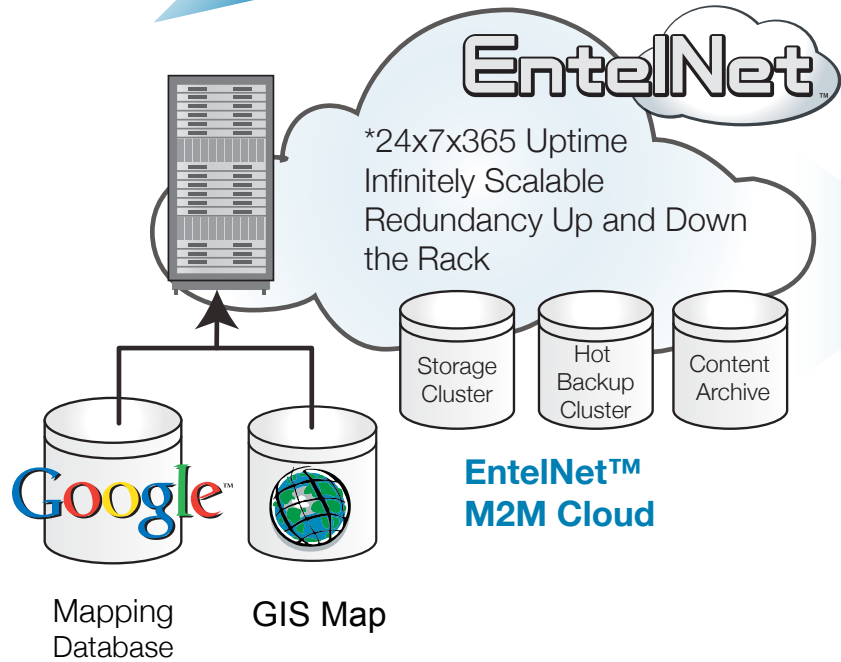
GSM Wireless Service
Provided by:



IRIDIUM

Communication

The message is translated into code that can be displayed on the M2M server.



Back Office

All access to client's data on EntelNet™ web servers is under the direct control of the client. Conversions from the satellite IMEI# to the client's designation are done at the web tier. Faria Beede provides a fully featured fleet management website (https) using Google® maps (can also work with client supplied maps) as well as custom web applications.

The worker's Safety Device sends a message to the MTU system installed in or on the vehicle, guard shack, ATV, etc.

The system is engineered to be hierarchical and customizable by enabling the client to provide individual's logon permissions and control access to asset's location/data.

Who receives the alert notification?

Alert notifications containing the worker's ID, picture, personal information, time of alert and GPS position are sent via e-mail and SMS to registered personnel, i.e. a Supervisor, as well as posted to a dedicated Web site.

Customized Website

The screenshot displays the 'Vodafone Employee Protection' website interface. At the top, there is a navigation bar with 'View' and 'Worker Alert' buttons. Below this, the 'Worker Alerts View' section is active. On the left, there is a 'Show Geolences' button. The main content area features a Google Earth map with a red pin indicating the location of the alert. A pop-up window over the map provides the following information: 'Worker David Leadbitter Employee ID: 1001', 'Alert Man down Alarm active since Wed 30 Apr 2014 17:02:38', and coordinates '41° 26' 5.48", -72° 6' 33.2"'. A 'Details' link is also present. To the right of the map, there is a detailed profile for David Leadbitter, including his job classification as 'Foreman', a photo, and various personal and medical details such as mobile number (33-234-12-45678), build (slim), eye color (brown), hair color (brown), height (5' 10"), weight (80Kg), and blood type (O+).

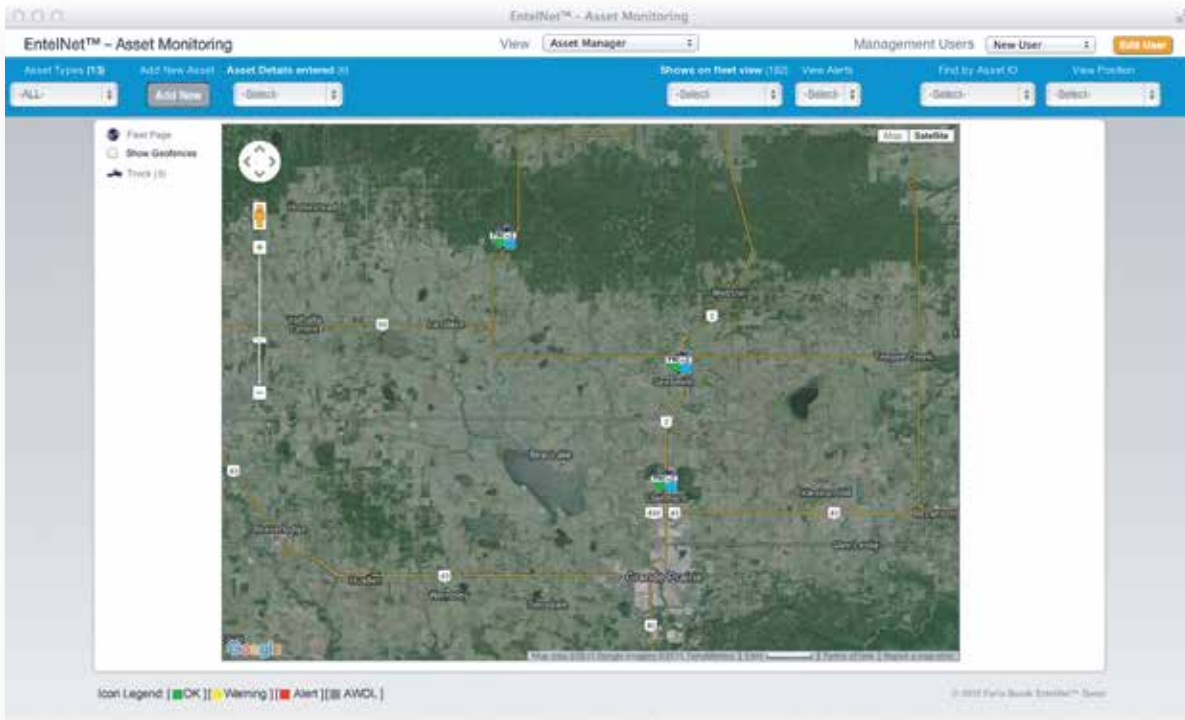
Feature Rich Web-Based System

Faria Beede supplies an easy-to-use, secure (https) web-based application that requires no software to install or manage.

- The system provides a secured log-in and is password protected and provides for different user access/levels.
- E-mail, SMS and telephone notification mechanisms.
- A graphical view of all data, featuring the ability to visualize assets and data on "Google Earth" maps or GIS Maps with satellite imagery overlays.
- The ability to download tabular data in standard formats (such as .xls or .csv files).
- An interface to the telemetry hardware on the vehicle/asset to create a relationship between the MTU serial number, the on-board Iridium Satellite Modem (IMEI#), and vehicle VIN number/or ID number via secure login.
- Web 2.0 technologies that include a scripting language and a data access layer.
- A WSDL/SOAP or JSON/TCP interface enabling you to pull down all asset information to be used for other applications.

Additional Platform features

Enable dispatchers, safety and fleet managers to securely login to a user friendly web-based tracking system where they can monitor the location and status of vehicles and assets on Google maps.



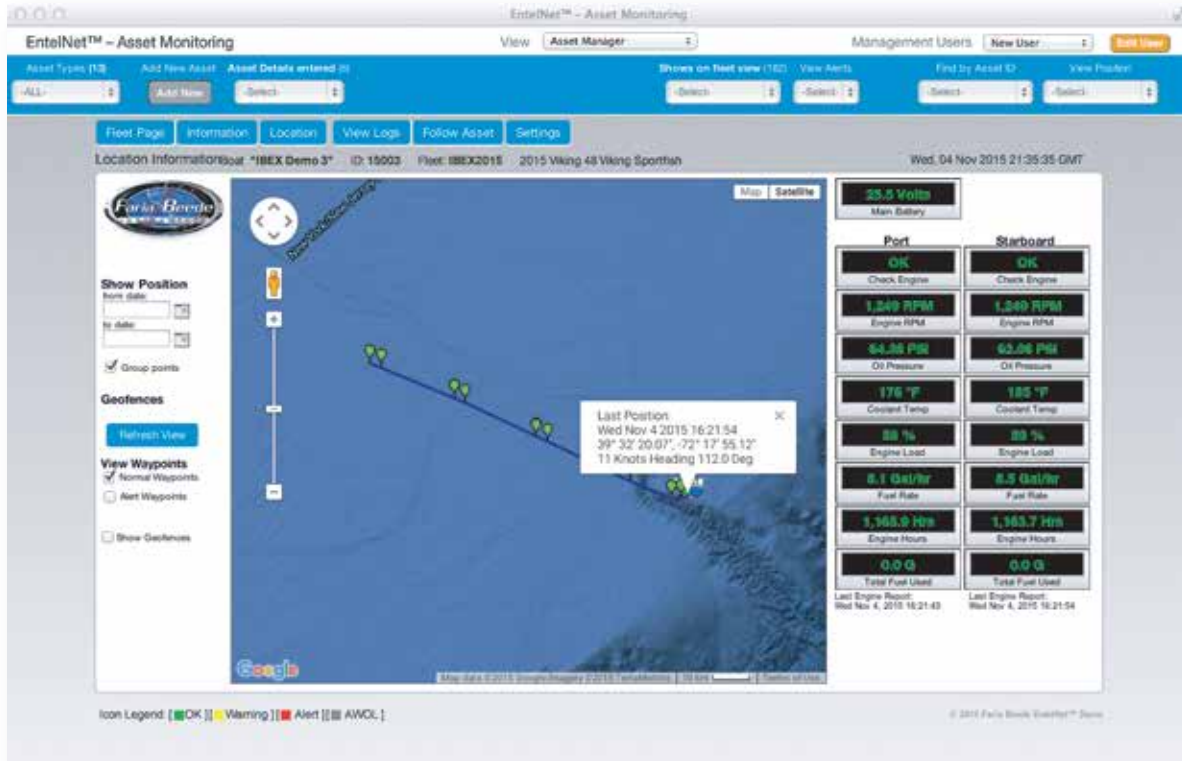
Alert supervisors and security personnel of dangerous and/or aggressive behavior.

Alerts	Alerts Details
Thu May 8, 2014 4:49:29	AWOL
Sun Mar 30, 2014 0:18:53	Seat Belt unbuckled Alert Set
Sun Mar 30, 2014 0:21:48	Speeding alert 47.104675
Sat Mar 29, 2014 21:06:07	Seat Belt unbuckled Alert Set
Sat Mar 29, 2014 21:06:07	Headlights Off Alert Set
Sat Mar 29, 2014 20:30:32	Headlights Off Alert Set
Sat Mar 29, 2014 20:30:32	Seat Belt unbuckled Alert Set
Sat Mar 29, 2014 20:28:50	Headlights Off Alert Set
Sat Mar 29, 2014 20:28:50	Seat Belt unbuckled Alert Set
Sat Mar 29, 2014 20:11:50	Headlights Off Alert Set
Sat Mar 29, 2014 20:11:50	Seat Belt unbuckled Alert Set
Sat Mar 29, 2014 20:07:55	Seat Belt unbuckled Alert Set
Sat Mar 29, 2014 20:07:55	Seat Belt unbuckled Alert Set
Sat Mar 29, 2014 20:07:55	Headlights Off Alert Set
Sat Mar 29, 2014 19:59:30	Headlights Off Alert Set
Sat Mar 29, 2014 19:59:30	Seat Belt unbuckled Alert Set
Sat Mar 29, 2014 19:59:30	Seat Belt unbuckled Alert Set
Sat Mar 29, 2014 19:37:31	Speeding alert 47.01375
Fri Mar 28, 2014 16:43:44	Speeding alert 47.10007
Fri Mar 28, 2014 4:00:02	Speeding alert 47.0782
Fri Mar 28, 2014 3:59:35	Speeding alert 47.055183
Thu Mar 27, 2014 16:46:12	Speeding alert 47.039086
Wed Mar 26, 2014 16:03:31	Speeding alert 47.127693
Sun Mar 23, 2014 21:08:11	Seat Belt unbuckled Alert Set
Sun Mar 23, 2014 21:07:46	Seat Belt unbuckled Alert Set
Sun Mar 23, 2014 21:07:38	Headlights Off Alert Set
Sun Mar 23, 2014 20:58:14	Speeding alert 47.290184
Sun Mar 23, 2014 20:57:57	Seat Belt unbuckled Alert Set
Sun Mar 23, 2014 20:57:39	Seat Belt unbuckled Alert Set
Sun Mar 23, 2014 12:25:45	Headlights Off Alert Set
Sun Mar 23, 2014 12:25:45	Seat Belt unbuckled Alert Set
Sun Mar 23, 2014 12:21:48	Headlights Off Alert Set
Sun Mar 23, 2014 12:21:48	Seat Belt unbuckled Alert Set
Sun Mar 23, 2014 12:20:16	Seat Belt unbuckled Alert Set

Engine Monitoring & Diagnostics

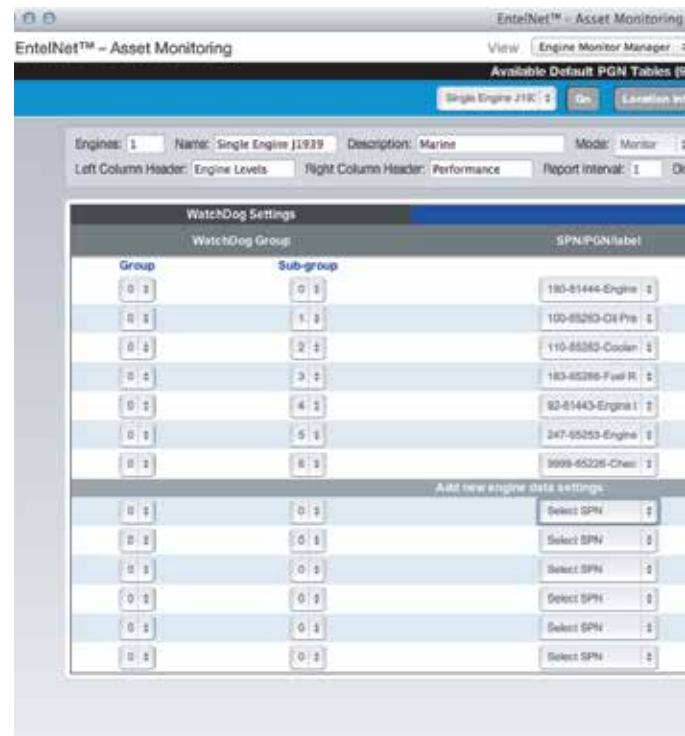
The system can report J1939 CAN, J1708, & Modbus engine data and diagnostic messages on equipment that support this feature.

Fleet managers can get near real-time engine data to view engine hours, fuel burn, road speed and diagnostic alerts.

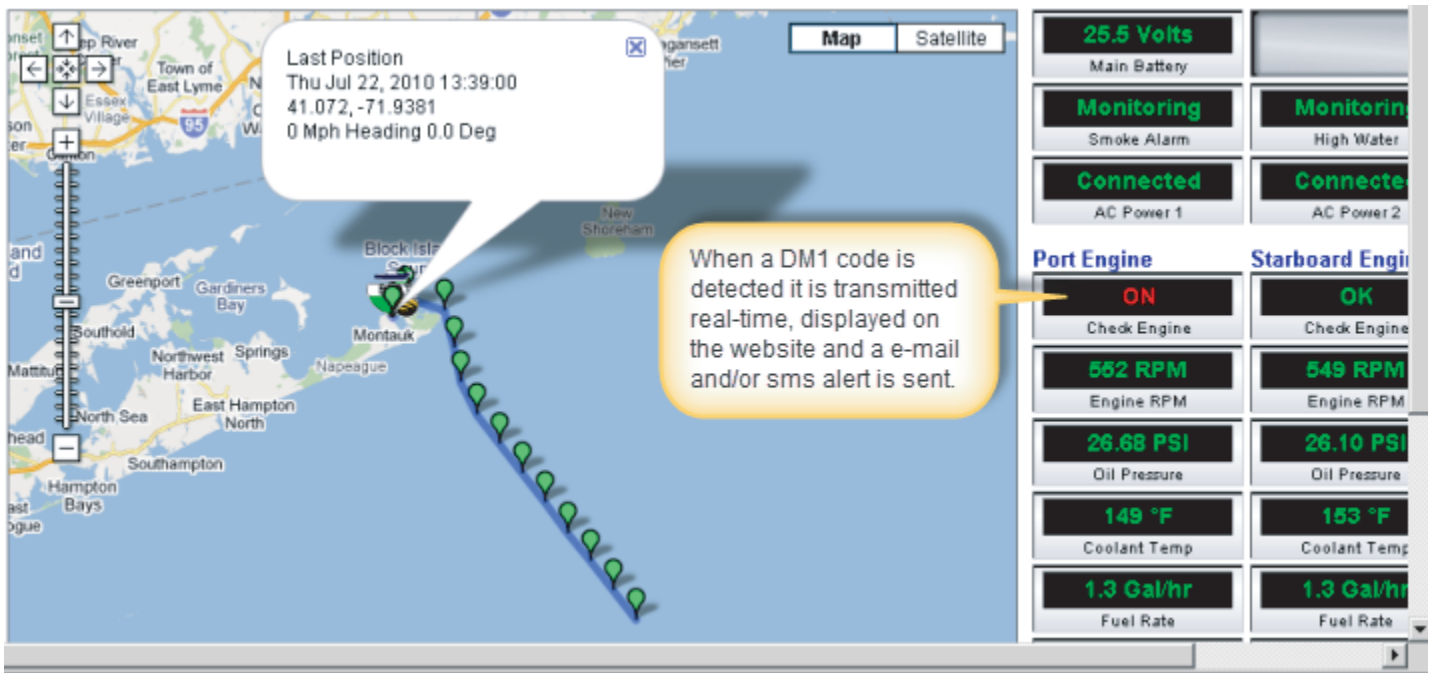


Specific engine parameters can be monitored by the system using CAN PGN/SPNs. The PGN's/SPN's are dynamically changed from the web site. The user can enter PGN numbers with conversion factors on the web site or use pre-programmed parameters and upload the request for data to the deployed unit.

The unit acknowledges the PGN (assuming it is valid) and starts to report the data back, usually within 60 seconds. The unit will continue to report PGN values until it is either turned off or the PGNs are changed via the web site interface.



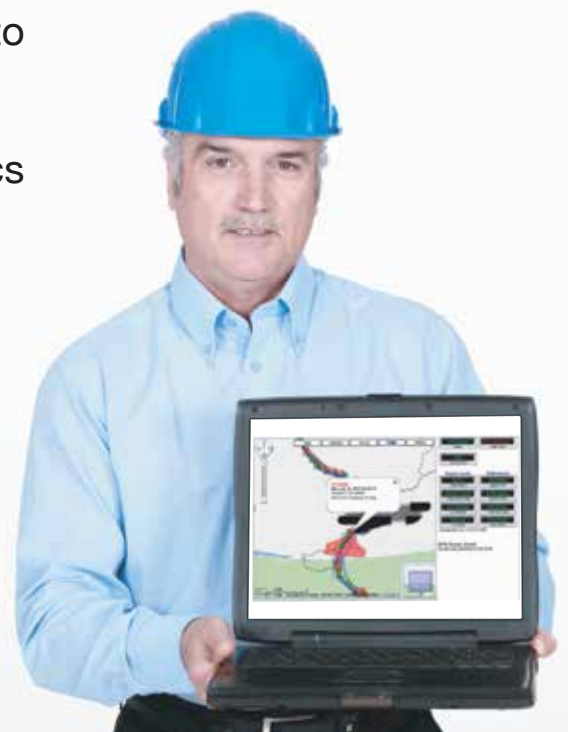
This real time Satellite Engine Monitoring and Tracking System changes the “service paradigm” by eliminating the first service call, reducing warranty cost and improving customer satisfaction.



View Port Engine					View Starboard Engine				
Port Engine					Starboard Engine				
Date/Time Set GMT -5	SPN-FMI	Alert Text	Date/Time Cleared GMT -5	Count	Date/Time Set GMT -5	SPN-FMI	Alert Text	Date/Time Cleared GMT -5	Count
07/13/12 (Fri) 11:37:30	91-08	Throttle Position signal abnormal	07/13/12 (Fri) 11:41:58	2	07/13/12 (Fri) 12:02:22	110-17	Low Engine Coolant Temperature	07/13/12 (Fri) 12:27:37	127
07/13/12 (Fri) 11:37:29	91-08	Throttle Position signal abnormal	07/13/12 (Fri) 11:41:58	3	07/10/12 (Tue) 8:53:09	110-17	Low Engine Coolant Temperature	07/10/12 (Tue) 9:01:29	127
07/8/12 (Sun) 14:34:34	110-17	Low Engine Coolant Temperature	07/8/12 (Sun) 14:40:14	2	07/10/12 (Tue) 7:13:04	110-17	Low Engine Coolant Temperature	07/10/12 (Tue) 7:20:59	127
07/8/12 (Sun) 2:38:29	110-17	Low Engine Coolant Temperature	07/8/12 (Sun) 2:44:04	1	07/9/12 (Mon) 01:55:34	110-17	Low Engine Coolant Temperature	07/9/12 (Mon) 01:55:30	127
07/6/12 (Fri) 15:04:49	1382-11	Unexpected Engine Shutdown	07/6/12 (Fri) 15:14:59	36					

Custom Reports Designed For Customer Specific Requirements

- The EntelNet™ system enables fleet managers to
 - Report the location and status of assets
 - View J1939 CAN Engine Data & Diagnostics
- Alert for excess idling, rpm's & fuel burn
- Report Engine hours, Run Times, Fuel Burn
- Report Production Data
- Establish service intervals
 - Reduce operating costs



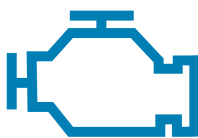
About Faria Beede EntelNet Telematics



Faria Beede is a leading data and communications service provider, which is focused on extending the 'Internet of Things' into the Power Generation, Mining, Maritime, Oil & Gas and Rail sectors, via ruggedized Iridium Satellite, GSM & Wi-Fi solutions, which are coupled with a Software-as-a-Service (SaaS) business model, that can be customized for any client's monitoring, control and data management needs.



Customized Website



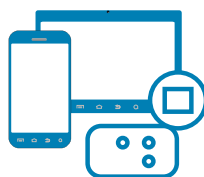
Telemetry



Communications



M2M Cloud



Hardware



Installation

Tested Tough - Proven Reliable

Our proprietary ruggedized hardware solution is fitted on-board each asset - where it interfaces to engine management systems, data entry tablets (for operators), data-loggers ("black-boxes"), GPS, on-board systems, other sensors/senders (i.e. fuel level) and remotely can turn on/off devices.

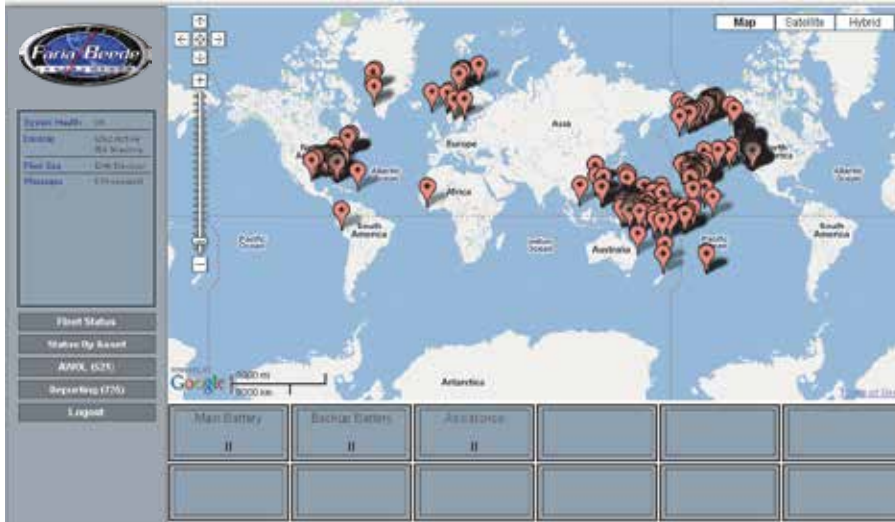
Intelligence on-board selects and prioritizes the information of most importance to the customer, which is transferred wirelessly over satellite and cellular networks to the web-tier—allowing Faria Beede to provide a seamless Software-as-a-Service (SaaS) offering tailored to each customer.



The 750VMS MTU is type certified by the US National Marine Fishery Service, Forum Fishery Agency, the IMO (International Maritime Association) for LRIT and 50 government agencies around the world.



Today we are tracking and monitoring thousands of vessels worldwide.



Faria Beede pioneered the use of Iridium Satellite's SBD (Short Burst Data) for vessel tracking, monitoring & communications. Today Faria Beede 750 MTU systems are transferring millions of position reports and messages monthly.

Putting the Internet of Things to work for you!

The Machine-to-Machine (M2M), EntelNet, technology is used to monitor mobile assets including Oil & Gas Assets, Work Boats, Fishing Vessels, Mining Equipment, Trains and Individual Workers in high-risk areas.



Worker Protection



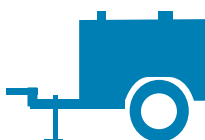
Oil & Gas



Mining



Work Boats



Mobile Assets



Yachts

M2M is an integral part of Internet of Things, one of the fastest growing areas of the technology. The information gathered by Faria Beede M2M systems is transformed into actionable intelligence—via sophisticated reports and alerts.

- Enhance operational efficiency
- Reduce warranty and operating costs
- Increase uptime and asset utilization
- Comply with environmental and regulatory mandates
- Schedule preventative maintenance
- Improve safety

Satellite Asset Monitoring Solutions



For more information contact



Tel: 860.848.9271

Web: www.FariaBeede.com