Show-n- “Stay Tuned”

Vessel Tracker

The Wish list…

- To be able to answer the question – "Where are the UNOLS ships now?" (in other words –the geographic location of each ship in near real time)
- A visual display of the world oceans with ship positions
- Automated feeds of lat and long data in a standard format

The Situation, Challenges…

- Many ships have Automatic Identification Systems (AIS):
  - But not the entire fleet?
  - Relies on VHS (but there is a satellite option)
- Ships collect GPS data, but how do we send the lat/long to the UNOLS Office without putting more work on the ship's crew or technicians.

University-National Oceanographic Laboratory System

A Solution?

- Vessel Tracker – Smart box

Erin – not "Eric"

Vessel Tracker – One example

AXONN GLOBAL DATA SOLUTIONS

Advanced wireless technology for the tracking and monitoring of remote assets

SMARTONE

SATELLITE MANAGED ASSET READY TRACKER

Designed for the intelligent management of powered and non-powered fixed and movable assets, **SMART**ONE is a practical solution to improve operating efficiency and security.

The "Asset Ready" design allows it to be easily installed and field managed without the need for harnesses, antennas, or external power. The **SMART**ONE is powered by 4 "off-the-shelf" AA 1.5V lithium batteries providing 3+ years of battery life and removes the need to purchase expensive proprietary batteries for replacement.

The **SMART**ONE utilizes motion sensors, comparative GPS positioning and custom configured sensors to gather and transmit asset status information. Each **SMART**ONE is custom configured to track its asset's specific needs and provide intermediate and emergency alerts by email and/or text/cellular.

Globalstar
GO FURTHER, DO MORE

SMARTONE **Certifications:**

Intrinsic Safety (UL Class 1, Division 1 Groups A, B, C, D) for US and Canada
FCC CFR Parts 15 and 25
Industry Canada
CE Mark (European Certification)
COFETEL

Standards:

SAE J1455 MIL STD 810
NEMA 4X / IP68
RoHS Compliant

SMARTONE **Setup:**

- Up to 12 different reporting times
- Interval or 24 hour operation mode
- Alternate reporting scheduling
- Low Battery Message
- Motion Sensor/Vibration parameters and scheduling
- Reduced Messaging/Re-centering
- Contact Closure parameters
- Delay To Start
- Diagnostic messages

Hardware on/off feature

- Power on and off by changing the orientation of the connector cover
- Power cycling the unit initiates GPS re-centering functionality

Feature Set:

Standard Messaging:

- Wake, GPS locate, Transmit location, Resume sleep
- Up to 12 programmable sleep time-of-wake settings

Alternative Reporting:

- Alternate supervisory reporting schedule triggered by "alarm" or motion
- Transmits GPS location on alternate interval for programmed time or while alarm remains active

Integrated Motion Sensor:

- Message on start and stop
- Engage interval override on motion for set time or while in motion

Messaging Cost Reduction Feature:

- Reduced satellite messaging if asset remains in same location

Change of Location:

- Theft recovery reporting based on distance moved
- Reduced messaging mode

Field Replaceable Batteries:

- Uses 4 AA "off-the-shelf" 1.5V lithium batteries for 3+ years battery life

Accessories:

- Open door sensor
- Bare wire cable
- USB Configuration Cable

Installs in minutes using automotive adhesive tape or included mounting bracket

Global LEO Satellite operation using the Globalstar Simplex Data Network

SMARTONE IP68 Enclosure Specifications:

For more information on how Axonn's advanced product technologies can become an integral part of your wireless solution, contact us today at 985-893-1048 or visit us on the web at www.axonn.com for more information.

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Axonn, LLC CONFIDENTIAL

- SmartOne by Fleet Analytics
- Small and Portable
- No need for antennas or external power.
- Powered by 4 "off-the-shelf" AA 1.5V lithium batteries providing 3+ years of battery life
- Global Satellite operation
- Weather Resistant – Not Sure??
- Cost per unit – varies $130 to $215

Vessel Tracker

- Data - Maritime Information Services offers a service that will send the data back to shore automatically in a standard format
- Data Service – About $30/month
- No additional effort for ship operators in terms of providing the data to the Office
- Plans – Endeavor Trial