



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.



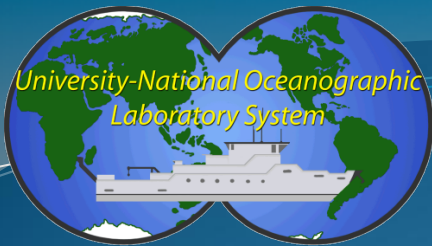
## A Solution?

- Vessel Tracker – Smart box



Erin – not “Eric”





# Vessel Tracker – One example



Advanced wireless technology for the tracking and monitoring of remote assets



Designed for the intelligent management of powered and non-powered fixed and movable assets, **SMARTONE** 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 **SMARTONE** 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 **SMARTONE** utilizes motion sensors, comparative GPS positioning and custom configured sensors to gather and transmit asset status information. Each **SMARTONE** is custom configured to track its asset's specific needs and provide intermediate and emergency alerts by email and/or text/cellular.



#### 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

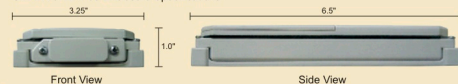
##### Accessories:

- 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](http://www.axonn.com) for more information.

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Axon, 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