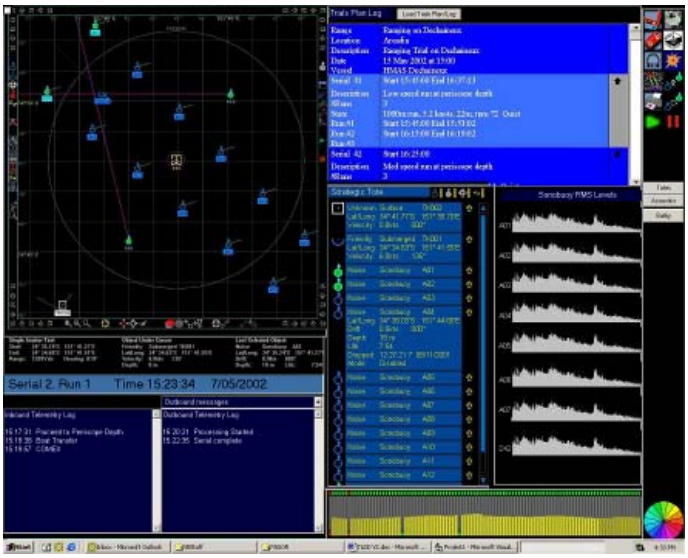
PASOR

Portable Acoustic Sonobuoy Range



PASOR — Tactical Display Layout — Tote View

FEATURES

- Portable
- Rapidly deployable
- Vulnerability assessment in the operational environment
- Acoustic signature measurement through the full parameters of the platform
- Signature results and a ranging summary are calculated in-situ
- Near real time analysis of range results
- Over 8 hours of raw recording capability (limited only by available disk space.

L-3 Nautronix develops sophisticated solutions to measure and communicate data through water. It specialises in applications involving underwater test and evaluation and through-water communications. This Capability Statement describes the Portable Acoustic Sonobuoy Ranging (PASOR) system. It is based on an application recently provided to one of our customers.

PASOR captures, measures and analyses, in near real time, a vessel's acoustic signature.

The portability of the PASOR system provides the user with the ability to deploy a measurement range to an area of operational interest. This provides the opportunity to conduct self noise assessments in an operational environment with real-time analysis for immediate implementation.

The system is able to be deployed from airborne and surface platforms and utilises standard acoustic measurement buoys as in-water sensors.

PASOR allows the operator to derive Broadband and Narrowband Source Level information.

KEY FEATURES

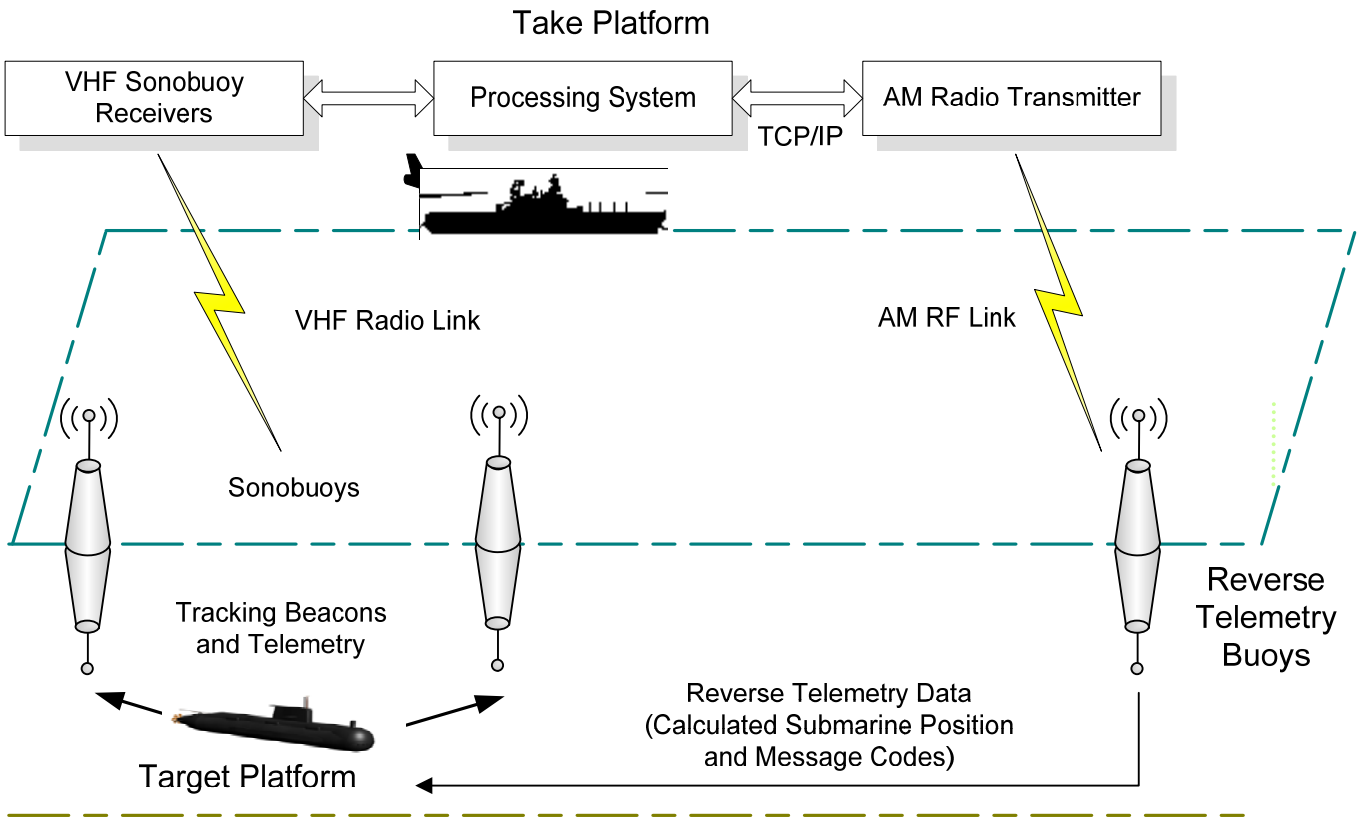
The PASOR system comprises the following components:

Functional Component	Take Platform System	Target Platform System
Ranging Planning & Control	✓	
Tactical Display	✓	
Analysis Suite	✓	
Data Acquisition System	✓	
Data Export	✓	
Data Replay	✓	
Telemetry	✓	✓
Tracking	✓	✓
Communications	✓	

SYSTEM PERFORMANCE

The PASOR System has the following performance capabilities:

- Maximum error of 2 dB RMS measured at 1 m from the sonobuoy.
- Ability to measure ambient conditions down to the Cato Sea State Zero Curve.
- Ability to measure target signature in the band 5 Hz to 20 kHz.
- Receive signals from SSQ-57A/C, SSQ-53D/E and SSQ-36 or equivalent type sonobuoys.
- Simultaneously receive and display signals from up to 7 sonobuoys.
- Over 8 hours of raw recording capability (limited only by available disk space.
- Transport sonobuoy platform via up to two reverse telemetry buoys.



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