



Coastal Surveillance and Vessel Identification (VIDS) System

Integrated system combining:

- High-performance radar
 - Long range low level air surveillance
- Digital Signal Processing matched to radar parameters
 - Small target detection
- Universal AIS
- Radio Direction Finders
- Underwater detection
- EO/IR camera control
- VoIP remote radio
- Patrol vessel transponder tracking
- 'Electronic Passport' transponders for registered fishing/pleasure craft
- UESML C2DB software
- UESML radar displays
- Patrol boat sector-filtered slave displays
- Networked patrol boat radar



Coastal Surveillance Systems must provide a means of detecting unknown vessels, allowing them to be identified and monitored, as well as providing 'Command and Control' to permit direction, vectoring and interception.

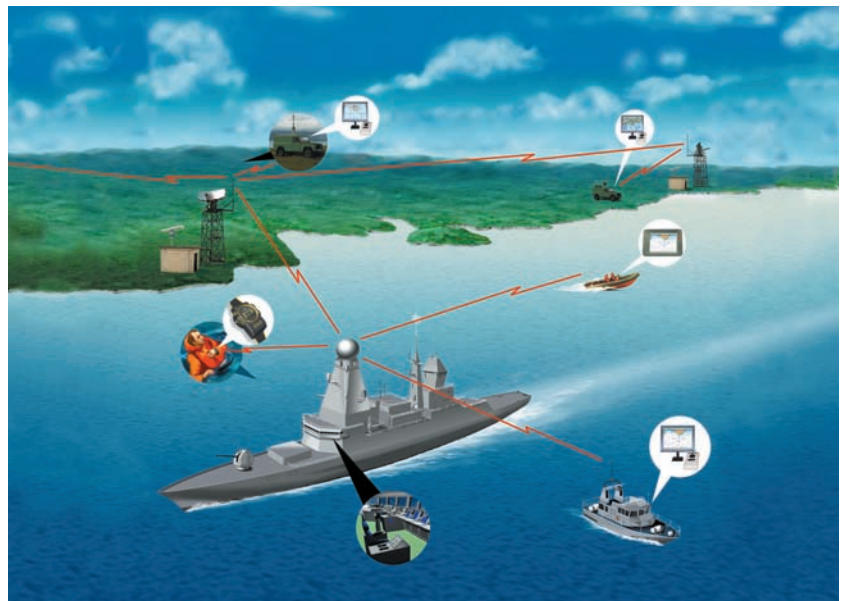
The Ultra Electronics SML Technologies' system achieves this by combining a high performance coastal surveillance radar with sophisticated signal processing and powerful trackers. The radar track output is combined with tracks from an AIS network, SML's ID (SID) Patrol Boat Transponder system, and small craft/fishing vessel 'Electronic Passport' transponder tracks. All relevant track data is correlated using the UESML Track Manager Software, resulting in identification of own assets and unknown vessels. The fused tracks of each contact can be relayed via any communications link to the Command and Control Centre. Track information can also be sent via UESML's transponder-datalink to Offshore Patrol Vessels. In the control centre the tracks are displayed, overlaid on electronic charts and maps, using UESML's PC-based radar and Command and Control Database (C2DB) display software.

The resultant, network-centric Coastal Surveillance system allows the operator to easily identify unknown radar returns. Patrol Boats can be given information about target vessels and can be provided with intercept information from the command centre or calculate their own intercept course when equipped with SID Transponders and Safe Navigator displays.

A variety of symbols including MIL-STD 2525B, STANAG 4420/NTIDS symbology is available to help identify different vessel types. OTH Gold message interchange is supported in the C2DB software. All sensor data is recorded and can be replayed and filtered on the system in real-time or high speed.

The system can be used for:

- Command and control of maritime forces
- Border control
- Prevention of smuggling and illegal immigration
- Fisheries and EEZ monitoring
- Disaster response
- Search and Rescue
- Environmental protection



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