T-Act
Tactical Asset Control & Tracking
for Naval and Maritime Security Operations
OSI Maritime Systems delivers advanced navigation and command and control systems to address the growing need for enhanced real-time situational awareness for military and security applications.

With a history spanning over 20 years, OSI navigation solutions include ECPINS-Warship®, ECPINS-Submarine®, ECPINS DMOP, Warship-AIS, and T-ACT (Tactical - Asset Control and Tracking).

T-ACT is a versatile and fully scalable maritime and shore-based security solution utilizing terrestrial communications:

- Designed to allow the military or maritime security users to track and control a wide variety of vessels or assets
- Uniquely addresses the demands posed by numerous operating scenarios including Maritime Interdiction Operations (MIOPS), Amphibious Operations, Port Security and high-speed Littoral operations
- Fully scalable with fixed ship, shore, vehicle, vessel, aircraft or portable systems
- Enables close command and control in high-tempo situations
- Deployable in sea, air or on land-based units

T-ACT is a COTS/MOTS derived solution which provides a low risk, cost-effective and robust solution to the Command and Control (C2) of Offshore Patrol Craft/Corvette size ships and their embarked small craft.

T-ACT leverages the information gained through the widespread use of AIS, as well as the tactical support functions available in OSI's navigation and operational support software. This combination provides a dynamic means of capturing and sharing the complex situational awareness picture, as well as tactically employing assets such as small craft (LCVPs, LCUs and Riverine), RHIBs and similar fast boats as well as helicopters. The system can be used to coordinate the operations of multiple T-ACT fitted ships and smaller assets, in either an overt or covert manner as dictated by the tactical situation.
T-ACT is at the heart of small craft operations. Providing advanced navigational and situational awareness capabilities to the small craft, it also allows for the direct transfer of detailed and safe plans from Command. The small craft crew is easily able to receive, en route, changes and amendments to planned routes to any given destination, such as into a port, to a jetty, beach landing area or a series of pre-designated ‘gates’ when returning to mother.

T-ACT enhances small craft operations by providing the capability for the Command to brief small craft crews onboard and quickly provide the operational plan to the small craft system via a secure link. This removes the risk of misinterpretation or the need to connect external hardware to allow data transfer. The small craft can also be monitored by Command during the execution of its mission in ‘real time’ through the use of “Blue Force Secure Tracking” or standard AIS.

T-ACT allows a wide variety of information to be exchanged between parent units, small craft and even helicopter support. Capable of operating both in the clear and on a secure channel, T-ACT provides the ability to carry out a range of operations in full view of other AIS users, therefore acting as a possible deterrent; or to operate in a secure mode invisible to general AIS users. T-ACT also provides the small craft and the helicopter with an enhanced picture including contacts of interest sent by the parent unit and its own local AIS picture.

“The heart of small craft operations. Capable of deployment across a wide range of platforms, T-ACT provides a significant increase in operational effectiveness through enhanced situational awareness, increased navigational safety and a simple but robust communications network that allows effective C2.”
A versatile & fully scalable solution.

“T-ACT is highly adaptable and can be used throughout a multitude of operational scenarios. Robust in design, and cost effective through considered use of COTS equipment, T-ACT provides a real alternative to other proprietary and often expensive solutions.”

T-ACT was initially developed to provide a means to monitor and direct the operations of patrol and response assets assigned to a ship or a shore station during operations. Employing the data-rich situational awareness information inherent in advanced navigation systems combined with commercial AIS information and, when available, ARPA information, a system was developed that enabled operators to conduct missions ranging from routine port operations and surveillance to complex Maritime Interdiction Operations (MIO), amphibious landing as well as fast navigation in complex littoral areas.

Today, T-ACT offers a versatile and fully scalable solution. Based on an open, flexible architecture, T-ACT can be installed alongside existing legacy equipment or as a standalone item. This can be achieved either using a laptop or desktop PC unit in either the Bridge or the Operations Room. This flexibility allows control of small craft operations to be monitored from the optimal location.

In addition, T-ACT builds on the already proven and in service OSI Maritime ECPINS-Warship, a fully developed Warship ECDIS (WECDIS), which offers surface and submarine solutions certified to the NATO WECDIS STANAG 4564.

In summary, T-ACT is a feature-rich system that is both versatile and scalable:

- Add-on to existing ECPINS software
- Secure Blue Force Tracking and messaging
- Easy transmission of mission critical information
- Custom GUI for small craft operations
- Based on COTS hardware designed for open maritime environment
- Fully scalable with fixed ship, shore, vehicle, vessel, aircraft or portable systems
- Suitable for a wide range of operations including MIOPS, boarding operations, force protection & EEZ Enforcement

T-ACT supports the simultaneous display of a wide variety of military and commercial chart/map data types. Through the simple application of filters the user can view nautical and land products in a single fused picture allowing seamless situational awareness in both domains.
### Key Specifications

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### Environmental

- Designed to operate in an exposed marine environment including immersion in water -10 to 50°C.

### Processor

- Small form factor processor, solid state hard drive, capacitor mini UPS and secure AIS transponder (IEC 60945).

### Display

- Specific high-speed GUI accommodates portrait and landscape, direct sunlight viewable, fully dimmable to black.

### Monitor

- Sunlight readable, LED back light, dimmable to black; optional NVIS compatible to MIL-STD-3009

### Keyboard

- On screen keyboard

### Maintenance Kit

- Water proof case containing keyboard, DVD and USB ports

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