



Submarine Bridge Situational Awareness System (SBSA)

powered by **ecpins**

A submarine bridge is often a harsh environment open to the elements. The OOW has limited access to external sensors, anti-collision plots and navigation safety information whilst isolated from the control room team. This in turn reduces the ability to make decisions rapidly in complex shipping situations and confined pilotage waters.

The submarine is particularly vulnerable whilst on the surface to close quarters situations due to limited manoeuvrability, a large draft and a small radar cross section. These dangers are compounded in restricted visibility.

OSI now provides a solution through the OSI SBSA system.

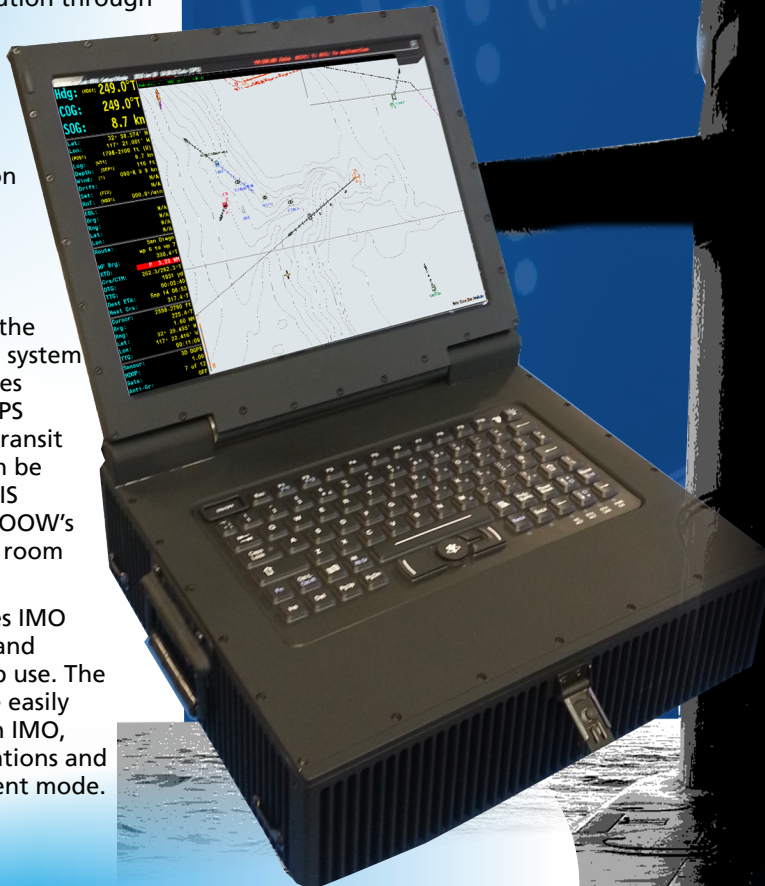
SBSA incorporates all the software capability of ECPINS Submarine along with Warship-Automatic Identification System (W-AIS) in one portable rugged self-contained package.

The SBSA system is entirely separate from the submarine's navigation system and sensors and provides its own independent GPS and AIS capability. All transit and pilotage routes can be displayed along with AIS contacts to reduce the OOW's reliance on the control room team.

The system incorporates IMO level AIS functionality and enhances it for Warship use. The W-AIS signature can be easily tailored to comply with IMO, national or local regulations and includes a 'Hot Key' silent mode.

OSI develops and delivers integrated bridge systems for warships, integrated dived navigation systems for submarines, and C2 systems for small craft. OSI currently has 20 naval customers from around the world with over 500 warships and submarines operating with its world leading integrated navigation and tactical solutions.

OSI Maritime Systems has been providing advanced integrated navigation and tactical solutions to military customers for over 20 years. As a pioneer of Warship Electronic Chart Display and Information Systems (WECDIS), the company has grown to be a leading provider of integrated navigation and tactical solutions designed for naval and maritime security operations.



**ECPINS® – Electronic Chart
Precise Integrated Navigation
System** ECPINS-W and ECPINS-V
Sub are International Maritime
Organization (IMO) approved
Electronic Chart Display and
Information Systems (ECDIS)
that surpasses the NATO WECDIS
STANAG 4564 standard.



www.osimaritime.com

OSI SBSA System

Submarine Bridge Situational Awareness

- 15" LED Backlit Display
- Sunlight Readable Display
- Temperature Shock, -40°C to +71°C
- Waterproof
- Less than 15kg
- Up to 8GB of RAM
- Embedded IMO AIS Transponder
- Solid State Hard Drive
- Option for Encrypted Hard Drive
- Self-contained Keyboard and mouse (joy stick)
- Fully Operational in less than 120 seconds
- Configurable Rear Connector Panel
- 24v Power Supply (less than 5 amps 60 watts)
- VHF



Advanced Navigation & Tactical Solutions

ECPINS WARSHIP

Your tactical advantage is with ECPINS-Warship, an International Maritime Organization (IMO) Approved Electronic Chart Display and Information System (ECDIS) that is certified to the NATO WECDIS STANAG 4564 standard. It is designed for the harsh, time critical environment of military navigators. Each feature has been enhanced by customer comments and experience. Specifically developed for military vessels to enhance situational awareness and improve navigational safety, it enables military navigators to navigate in the most challenging conditions and conduct mission-critical work with success.

ECPINS SUBMARINE

Dive with confidence using an International Maritime Organization (IMO) ECDIS that meets the NATO WECDIS STANAG 4564. ECPINS Submarine was developed solely for use on military vessels and submarines to enhance situational awareness and improve navigational safety. It enables military navigators to navigate both dived and on the surface.

INTEGRATED NAVIGATION & TACTICAL SYSTEM (INTS)

OSI's INTS is a fully scalable, IMO and NATO STANAG 4564 compliant Integrated Bridge System that offers a flexible design able to meet the requirements of the most demanding military environments. Centred around OSI's ECPINS and integrates selected radars and navigation sensors, INTS provides a comprehensive and cost effective IBS. The System is suitable for new builds or existing platform retrofits enabling warship to operate effectively in the most difficult conditions.

TACTICAL DIVED NAVIGATION SYSTEM (TDNS)

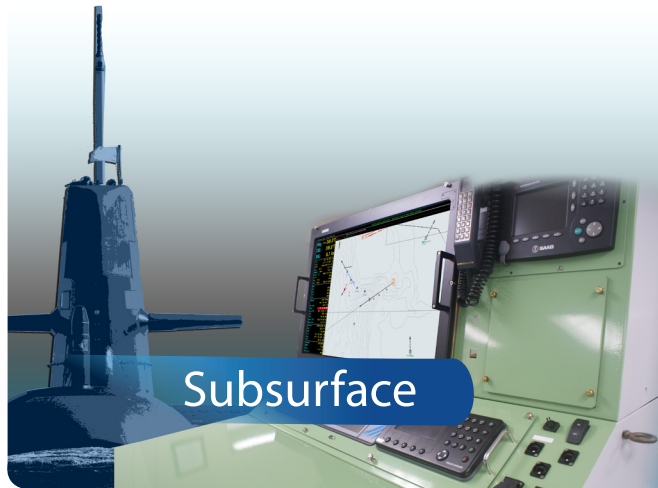
OSI's Tactical Dived Navigation System (TDNS) is based upon the market leading and most comprehensive submarine navigation software available, ECPINS. TDNS can be fully integrated into third party hardware system architectures or supplied on its own hardware baseline ranging across large displays, horizontally or vertically mounted to more conventional approaches to electronic navigation. Type Approved as an IMO ECDIS, TDNS is unique in the fact that it is also a fully approved WECDIS, independently certified against NATO STANAG 4564.

TACTICAL ASSET CONTROL & TRACKING (T-ACT)

Rugged, simple, effective — T-ACT is a versatile and fully scalable solution based on terrestrial communications. Designed to allow the military or security services user to track a wide variety of vessels or assets, it enables close command and control in high tempo situations. The system can be deployed on sea, air or in land based units and is based on a secure COTS architecture. T-ACT addresses the unique demands posed by numerous operating scenarios including MIOPS, Amphibious Operations, Port Security and Brown Water Warfare.

WORLDWIDE SUPPORT, SERVICE & INSTALLATION NETWORK

OSI is dedicated to providing customers with best in class customer support, service, and installation. Our 24/7 support line provides customers with the peace of mind that an Offshore Systems technician stands ready to support their queries. We have a qualified team of professionals to assist with service, installations, required annual surveys and re-certifications. Our worldwide network of personnel and leading partners are available to service customers from any location in the world.



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