



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.

TDNS has also been successfully interfaced with a variety of submarine specific Combat and Fire Control Systems making it an extremely low risk and attractive solution to submarine navigation.

As part of TDNS, OSI can also supply its NavTacDDU which enables the seamless integration of all submarine navigation sensors. These sensors can then be distributed across the platform to a variety of other systems and users. Additionally, OSI's unique submarine conning display is available as part of TDNS and this provides the submariner with additional submarine specific conning data including mast states.

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Feature rich TDNS is able to provide the submariner with a very wide range of navigational capability as well as tactical features that will help improve the Operational Capability of the submarine as well as overall dived navigation safety:

- Advanced navigation fixing techniques using ENC's as well as Raster Charts
- Bottom Contour Fixing
- Line of Soundings Fixing
- Chart Display using standard ENC and AML/TOD data products
- Vertical Sextant Angles
- Fully Supports the construction of dived navigation charts for specific submarine operations
- Automatic and Manual creation of Set & Drift calculations with the ability to change Time of Validity of information
- Automatic and Manual Pool of Errors Calculation, future prediction of POE, POE reduction through a variety of means
- Water Space Management and Moving Havens
- Target Motion Analysis