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Swedish Navy A19 Submarine HSwMS Gotland Upgraded with TDNS

OSI Maritime Systems (OSI) is pleased to announce the inclusion of Tactical Dived Navigation System (TDNS) as part the first-in-class submarine "Gotland" upgrade for the Royal Swedish Navy.

Led by SAAB Kockums, the A19 submarine upgrade was a comprehensive modernization program. Included in the upgrade, TDNS with ECPINS Submarine 6.2 (ECPINS) was chosen for its world beating dived navigation capabilities.

In the complex subsurface navigation environment the requirement to navigate without the aid of external sensors is paramount. High tempo tactical situations require that submarines minimise their above water signature, which restricts the use of sensors such as GPS. ECPINS innovative Dived Navigation methodology offers Submarines a unique GNSS Denied capability. Using an advanced algorithmic calculation, reliance on sensors is minimised, the Submarine can remain undetectable for longer and retains her full tactical advantage.

The confines of the submarine space present a challenging operating environment. OSI worked closely with the Royal Swedish Navy to refine and extend the system's capabilities and functionality. To improve operator's response and awareness, sensor identification combined with mast management was paramount. TDNS features a bespoke submarine information display providing the operator with quick, easy to reference navigation details, improving dived navigation and safety.

Independently certified against NATO WECDIS STANAG 4564, and the only truly third party certified naval navigation solution, ECPINS is deployed with the navies of Sweden, the UK, Australia, Canada, the Netherlands, South Africa, Portugal, and Brazil.

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About OSI

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. The company develops and delivers integrated bridge systems for warships, integrated dived navigation systems for submarines, and C2 systems for small craft. OSI currently has 23 naval customers from around the world with more than 600 warships and submarines operating with its world leading integrated navigation and tactical solutions.

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