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## SEASTEMA and HANWHA SYSTEMS delivered SEASNavY ECS to the Korean Navy

*The company solution is a state of the art suite of software for platform management (IPMS)*

SEASTEMA, a Fincantieri company specialized in integrated automation and control systems, in partnership with the Korean system integrator HANWHA SYSTEMS acting as main contractor, delivered SEASNavY Engineering Control System (ECS) on the first of eight Daegu-class frigates (FFX-II), built by Daewoo Shipbuilding & Marine Engineering Co. for the Republic of Korea Navy (RoKN).

FFX-II is the first South Korean warship to be fitted with a CODLOG integrated Gas Turbine and electric propulsion. This complex propulsion arrangement is entirely controlled by the advanced Propulsion Control System supplied by HANWHA SYSTEMS and SEASTEMA and based on SEASNavY ECS platform.

SEASNavY ECS is a state of the art suite of software subsystems for the integrated platform management, developed by SEASTEMA with the goal of complying with the new demanding operational requirement of modern naval vessels in terms of flexibility and reliability.

SEASNavY is characterized by a high level of integration and a significant number of new control modules and automated features, whose functionality and reliability has already been well proven in several European Naval programs.

One of the key factor for the success of this project is in the sophisticated Dynamic Simulation technique employed by SEASTEMA. This tool allows to test the most important control software algorithms in a laboratory environment before going on board.

The other key for success has been the contribution of HANWHA SYSTEMS, the prime contractor with an important share of localization, ensuring a proactive project management approach and an invaluable local support and cooperation with the customer.

Mr YOO Kyung Nam, chief engineer of DSME comments: "This project was particularly challenging for DSME because of the new complex propulsion configuration and other innovative solutions. Thanks to the local commitment of HANWHA SYSTEMS, the professionalism and competence of SEASTEMA's engineers and its mother company and the high quality of the product, the project was carried on without problems and within the scheduled milestones. Furthermore the short time required for the setting to work and testing of the ECS system, helped the shipyard and equipment manufactures in their commissioning and tuning activities".

**SEASTEMA** is a Fincantieri company dedicated to the development of marine integrated control solutions such as automation systems that targets applications in the naval, cruise, ferry and mega-yacht segments paying specific attention in the development of wider integrated systems, improving ship operation, controlling running costs and maintenance, while reducing environmental impact. [www.seastema.it](http://www.seastema.it)

**Fincantieri** is one of the world's largest shipbuilding groups and number one by diversification and innovation. It is leader in cruise ship design and construction and a reference player in all high-tech shipbuilding industry's sectors, from naval to offshore vessels, from high-complexity special vessels and ferries to mega-yachts, ship repairs and conversions, systems and components production and after-sales services. Headquartered in Trieste (Italy), the Group has built more than 7,000 vessels in over 230 years of maritime history. With more than 19,500 employees, of whom more than 8,300 in Italy, 20 shipyards in 4 continents, today Fincantieri is the leading Western shipbuilder. It has among its clients the major cruise operators, the Italian and the U.S. Navy, in addition to several foreign navies, and it is partner of some of the main European defense companies within supranational programmes. [www.fincantieri.com](http://www.fincantieri.com)