Integrated combat system for naval supremacy

NAVAL COMBAT SYSTEM

Missions
SETIS® scalable combat system is the direct outcome of DCNS’ long experience in designing integrated, multimission combat systems. Standing as the latest generation of combat systems while already combat proven, SETIS® has been developed within the framework of the French Navy’s heavily armed frigates programme (FREMM). It clearly fits the GOWIND® class corvettes of the Malaysian and the Egyptian Navies, and is designed to meet the request for heavily armed surface combatants.

Highly versatile, SETIS® meets all operational requirements by covering a very large spectrum of missions and delivering unrivalled performances in all warfare domains. Easy-to-operate and user-friendly, SETIS® captures the best of DCNS’ continuous improvement process aiming at optimising systems’ operating management and resilience.
OPEN ARCHITECTURE

A large range of equipment already integrated
Modular by design and benefiting from FREMM programme development as well as several foreign navies GOWIND® corvettes configurations, SETIS® integrates a wide range of sensors and weapon systems in line with customers’ requirements.

Built on open architecture standards, SETIS® is designed as a product line and offers a wide range of reusable functional components, ready to match our customer needs.

Scalable system for surface combatants
SETIS® can be installed on ships ranging from armed patrol vessels participating to a coalition up to first rank, heavily-armed frigates engaged in high intensity combat operations or commanding a naval force. Designed to ensure naval supremacy, SETIS® is the combat system operated by DCNS’ surface combatants:
■ GOWIND®
■ FREMM.

Multimission by design
Integrated around advanced algorithms-based Combat Management Systems (CMS), SETIS® covers the whole spectrum of missions at sea, and can counter multiple, multidomain attacks and targets simultaneously, even in an extremely severe environment:
■ long range coordinated surface engagement,
■ air defence,
■ submarine tracking and neutralisation,
■ gradual asymmetric engagement,
■ layer defence with a combination of hard kill and soft kill,
■ land strike.

A key element for theatre defence
Coupled with the relevant sensors and weapons chain, SETIS®’ most advanced configuration enables a ship to perform antiballistic missiles defence to protect military units, critical infrastructures, and cities from hostile attacks.
INTEGRATED COMBAT MANAGEMENT SYSTEM

Extended performance
Built to address current and emerging threats, SETIS® integrates:
- force multipliers such as unmanned systems directly operated from the combat system, to strengthen the ship’s survivability, extend the tactical advantage and bolster combat capabilities,
- global engagement plans for extended protection, automatically displayed for fast decision-making,
- integrated interface with collaborative planning tools when commanding a naval force or taking part in joint operations (command support system),
- cyberdefence modules to secure communications and information systems, and protect the ship’s against saturating cyberattacks.

User friendly
Designed with and for navy operators, SETIS® intuitive human-machine interfaces (HMI) are adaptable to the customer’s requirements, therefore offering tailored user interface and excellent equipment/subsystems integration.

Exceptional interoperability and networked operations with tactical data links
SETIS® benefits from DCNS’ long experience in the development of tactical data links (TDL). SETIS® manages all NATO standards (L11, L16, L22, JSAT) as well as national communication systems and contributes to the common operational picture. Surface combatants fitted with SETIS® are therefore fully interoperable with all other naval units, remote assets or shore-based units and command centres, and can fully take part in joint or international operations.

Way Ahead

Ever-increasing resilience
SETIS® resilience is based on a high level of data distribution and hardware redundancy as well as a large set of down-grading and back-up modes allowing the ship to return to optimised operational capability in case of battle damage. To even strengthen SETIS® resilience, DCNS develops shipboard IT and data centres allowing virtualisation, optimised resources assignment and therefore exceptional flexibility in operations.

Growth potential
SETIS® also benefits from DCNS’ continuous R&D focusing on simplified operation management. The upcoming NextGen Combat Information Centre (CIC) will provide the operator with cutting-edge HMI, planning tools and superior integrated command aids bolstering the ship’s combat capabilities in all circumstances.
Your naval partner

DCNS’ simulation tools and integration platforms are used to design and validate the best solution for customers. DCNS’ Shore Integration Facility (SIF) has been extensively used for major programmes such as Charles de Gaulle aircraft carrier, Horizon destroyer and FREMM frigate. DCNS supports all French Navy legacy assets and can provide similar or customised support to foreign navies. DCNS is open to partnerships and technology transfer with local industry, enabling local through-life support or equipment and software supply.

SETIS®, already selected by four navies

French Navy
- FREMM frigate

Royal Navy of Morocco
- FREMM frigate

Malaysian Navy
- GOWIND® corvettes

Egyptian Navy
- GOWIND® corvettes
- FREMM frigate