

NSM™ CDS



KONGSBERG



Naval Strike Missile (NSM™) Coastal Defence System

- High precision strike Surface-to-Surface Missile (SSM) System

FEATURES

- Long range NSM™ Surface-to-Surface Missile System with Sea & Land Target Capability
- NSM™ Key Features
 - Survivable
 - Stealth
 - Passive
 - Sea skim
 - Overland low flight
 - Terminal maneuvers
 - Targeting
 - Autonomous Target Recognition
 - Aim point selection
 - High precision
- Advanced BMC4I Distributed Real Time network
- Open architecture for future system growth
- Multiple simultaneous engagement capability
- Coordinated time on target(s) for salvo firings

The NSM™ CDS is a high performance ground based Coastal Defence system. It has unique features with a net centric architecture which enables multiple simultaneous engagements and over the horizon (OTH) targeting. These capabilities, combined with the unique NSM™ target recognition, shapes a highly potent and vast SSM system for the future. The system can be closely integrated and adapted to a country's adjacent weapons and command and control systems. This expands the defended area and enhances the total fighting capability of the force.

The NSM™ CDS is composed of the following major items:

- The Fire Distribution Center (FDC) providing Battle Management Command Control Communication Computers and Information (BMC4I)
- The Naval Strike Missile Launcher Fire unit, a canister protected weapon platform with the NSM™ missile
- Sea surveillance and tracking radar - customer selectable (optional)

The NSM™ missile has unique capabilities compared to legacy anti-ship cruise missiles. The missile has been designed to ensure a high probability of hit in the anticipated current and future challenging naval scenarios.

The FDC is the central integrating element for the NSM™ CDS system. It is based on the similar proven KONGSBERG BMC4I FDC used in the NASAMS System. More than 120 FDCs have been delivered world wide in different configurations including several NATO countries and the USA. The FDC is independent of vehicle types.

NSM™ CDS system is in service with the Polish Navy. The NSM™ missile is in service with the Norwegian Navy on the Nansen class frigates and Skjold class corvettes and under delivery to the US Navy and the Royal Malaysian Navy. NSM™ is interchangeable between ships and trucks.





Sea and land mission

The primary missions for NSM™ CDS are maritime interdictions against sea targets from small and light ships made of Glass Fiber Reinforced Plastics (GFRP) to large naval combatants like destroyers and frigates and ships with thick hull like icebreakers.

Secondly, land targets are handled by the NSM™ CDS. The land attack capability is primarily based on use of the military GPS. Typical land targets are stationery, soft targets like harboring depot buildings, command and control facilities, sensor sites and air defence sites. Ships secured alongside jetty are categorized as a land target, enabling a high precision harbor attack capability.



Advanced real time network with plug & fight architecture

The user friendly system is designed to operate in an advanced, real time network with plug & fight capability. The main core nodes in the network are the FDCs, to which any sensor or launcher can be integrated. The network of up to 4 FDCs establishes a single integrated maritime picture enabling and enhancing situational awarenesses through data sharing.

Network engagement capability

Each of the FDCs can, when authorized, locally engage up to 12 different targets or use up to 12 missiles against the same target in a salvo. Through a defined FDC in the network it is possible to plan and control up to 48 NSM™ engagements simultaneously against 48 different targets. The network further utilizes the NSM™ embedded features for different salvo sizes per target. Including the possibility for simultaneous time on target, using salvo engagements or network enabled coordinated engagements for maximum attrition.



Target allocation

The system can receive target data from an organic sea surveillance radar or through external sources on data links or interface message protocols.

Interoperability through tactical data links & interface

- Link11A & B
- Link16
- Link1
- Asterix

Other customer specific tactical data links and message protocols can be implemented by utilizing legacy and the system's open SW and HW architecture to create a mix of multiple tactical data links.



Flexible configuration

The NSM™ CDS system's modularity in both hardware and software ensures a cost-effective focus on system growth in the areas of BMC4I, other sensors and other effectors. With the open architecture, the FDC provides future system configuration flexibility. Different software modules can easily be changed or replaced without interfering with the other modules.

