

SELEX Sistemi Integrati at Euronaval 2006

On display: the IPN-S CMS System and the NA18 L/B electro-optic system

Selex Sistemi Integrati, a Finmeccanica company, is world leader in defence, civil and air traffic control and management systems and sensors, with a customer base in over 150 countries. Selex Sistemi Integrati is active in the markets of homeland protection, integrated air defence, battle space C4I, naval systems mission and air traffic management. This is enhanced by its capabilities in systems integration, simulation and synthetic environments, engineering, software design and manufacturing, all backed by comprehensive customer support facilities.

The strength of SELEX Sistemi Integrati in the Naval Mission Systems lies in the depth of its experience and expertise of over 40 years as a world leadership in the development and delivery of Integrated Combat Systems, Combat Management Systems, Command and Control Systems, Weapon Control Systems, Radar and Electro-Optical sensors, Simulation and Training Systems.

SELEX Sistemi Integrati operates across all areas of maritime battlespace, delivering turn-key solutions to meet the requirements of naval component commanders, task group staffs and command teams at single-ship level. SELEX Sistemi Integrati is the Italian Navy's main combat system supplier.

SELEX Sistemi Integrati is a key player in the French-Italian program FREMM for the supply of 27 (10 to Italy and 17 to France) new generation Multimission frigates. Within this program the Italian Company will have an important role as major supplier of leading-edge technology based on the last generation systems, already developed for two other major naval programs for the Italian Navy: Horizon Frigates and Cavour new aircraft carrier.

SELEX Sistemi Integrati is the leading supplier for the Combat Management System (CMS) which is already installed on the Horizon frigates and will be on board the new Cavour aircraft carrier and FREMM Frigates. It will secure a total interoperability. The Italian Company will supply the new generation IFF radar, the RAN 30X/I medium range radar, the NA-25 fire control system and the RAN 40L long range radar, which will be on board the Cavour carrier.

In the naval sector SELEX Sistemi Integrati has also developed an integrated Vessel Traffic Management System network to cover and manage a wide geographical area, such as its first widest application: the Mediterranean basin. The System architecture is based on multiple control layers, identified as: Local, Area and Central, interacting at different operational levels. Each level supports the operational coordination and decision accordingly with its mission. The local stations in this architecture directly collect data from the Sensor Sites and interact with traffic. The VTMS developed by SELEX Sistemi Integrati are available in fixed, transportable and mobile versions.

The Italian nation-wide VTS is an example of Network-Centric Integration of maritime, operational, safety and security services, guaranteeing a full, real time coverage of 7,500 kilometres along the Italian coast, thanks to a National Centre, 14 Area Centres allocated into Maritime Directions which receive information from 82 local sites, 100 sensors sites and three mobile units.

SELEX Sistemi Integrati, a Finmeccanica company, provides state-of-the-art solutions for Air Defence, Battlefield C4I, Mission Critical Naval Command Systems, Vessel Traffic Management, Coastal Defence and Air Traffic Management Systems.

SELEX Sistemi Integrati is the Finmeccanica company that designs and develops Large System architectures for Homeland Protection by primarily using its own technologies or those of other Finmeccanica companies. With over 3000 dedicated personnel mainly employed in the design and development of high technology SELEX Sistemi Integrati can boast enormous capabilities in Systems Integration, Simulation, Engineering, Software Design and Production, combined with comprehensive and advanced customer support solutions.

SELEX Sistemi Integrati systems are in service with over 150 countries supplied from its primary sites located in Italy, Germany, the United Kingdom and the United States of America.

SELEX Sistemi Integrati participates at the 2006 edition of Euronaval, the world's leading international exhibition of naval armaments, displaying its capabilities within the Finmeccanica Stand (Hall 2A, Stand B 3.1).

IPN-S – Combat Management System

SELEX Sistemi Integrati boasts a dedicated exhibition area inside the Finmeccanica stand, housing a specially reproduced Command and Control Room (C4I) for naval missions. This area can be used to analyse a typical joint forces mission, checking the enormous potential of the Command and Control architectures that can be applied to a targeted battlespace.

The IPN-S Combat Management System integrates Combat System sensors, Weapons, EW (ESM/ECM) Systems, Tactical Data Links and Navigation Systems into a Main System, providing the Command Team with the facilities to operate the Combat System to fulfil the ship Operational Tasks and Missions.

Thanks to its scalar architecture the IPN-S is a solution for any type of vessel starting from Patrol Vessels through Aircraft Carriers.

It can be customized to meet the ship role and operational requirements. The System main functions are: Surveillance, Sensors Management, Tactical Picture Management, Navigation Support, Threat Evaluation and Weapon Assignment, Weapon System Management, Operations Planning, Multi Tactical Data Link, Onboard Training.

According to some specific roles of the ship, additional functions are available, such as Naval Gunfire support, Aircraft Control, Air Traffic Control (for aircraft carriers), Mine Hunting Support

Any component is fully redundant, assuring "no break" level resilience and graceful degradation.

NA18 L/B ELECTRO-OPTICAL FIRE CONTROL SYSTEM

The NA18L/B is an Electro-Optical (EO) Fire Control System suitable as a main FCS on board medium and small size vessels, as well as a secondary FCS for larger vessels fitted with Radar Fire Control Systems.

This EO System, developed by SELEX Sistemi Integrati on a new concept of lighter Director, allows a total 360° tracking and elevation excursion, due to its spherical shape and is able to control up to three guns against the target under tracking.

NA18L/B belongs to the last generation of SELEX Sistemi Integrati EO Fire Control Systems, designed and produced by the Company over the last 20 years, with regular re-design and technology upgrading processes.

NA18L/B is the most modern in the NA18 EO FCS family and it is operational on board the Italian Navy vessels and those of many foreign Navies.

For further information and details, please contact:

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