

SELEX SISTEMI INTEGRATI AT LE BOURGET 2009

For the first time on show the system NEXOS, an all-terrain Surveillance Quad-mounted unit, equipped with a LYRA 10 radar, a laptop and a Communications kit. Besides, on static display RAT 31DL/M Air Surveillance radar is exhibited. An operative room, the “Strategic Situation Centre”, for the management of different critical situations is reproduced . For the first time on show to an international exhibition the Harbour Protection system ARCHIMEDE. The VTMISS (Vessel Traffic Management Information System) is displayed, as well as an ATM (Air Traffic Management) demonstrator, the ForzaNEC-BIT (Brigata Integrata Terrestre) technology demonstrator and the Civil Protection Informative System.

This year too, SELEX Sistemi Integrati, a Finmeccanica Company, world leader in Defence Systems and Sensors, as well as in the Air Traffic Control and Management Systems and Airport Systems, takes part in the 2009 edition of the International Airspace show of Le Bourget from 15th to 21st June.

Within the Finmeccanica exhibition area, the Company displays its most vanguard production in radar engineering sector and in the design and development of Large System for Homeland Protection.

Large Systems are a priority in SELEX Sistemi Integrati's business strategy and, at the same time, they represent an increasing interest from a social point of view, being considered equipments designed to protect territories, people, institutions, critical infrastructures from the terrorist threats and natural disasters.

Finmeccanica Stand

Within the Finmeccanica Stand, a demonstration of the Company capabilities in Security sector is provided by a "Strategic Situation Centre", in which SELEX Sistemi Integrati has the role of Systems Integrator for its and other Finmeccanica Companies' capabilities and systems.

In the room, a crisis management simulation in Security field is displayed in a wider scenario, in which some simultaneous operational missions are managed. The room is linked to three Remote Control Room, located in Rome (SELEX Sistemi Integrati site), carrying on the critical infrastructure protection mission, in Washington D.C. (into the DRS Technologies site) where a Vessel Traffic System of SELEX Sistemi Integrati shows a maritime border surveillance mission. The third connection is to London (to the Finmeccanica-UK site) where an operative scenario for the management of large events, such as Olympic Games 2012 and Expo 2015, is visualized.

The "Strategic Situation Centre" is surrounded by a "Simulation Ring" where SELEX Sistemi Integrati is exhibiting ForzaNEC-BIT (Brigata Integrata Terrestre) System to digitalize land units, the ARCHIMEDE Harbour Protection and Surveillance System and the Vessel Traffic Management Information System (VTMISS) for the maritime traffic surveillance and maritime environment control, monitoring and management.

Into the Finmeccanica "Security and Resilience" area, the ATM (Air Traffic Management) demonstrator and the Civil Protection Informative System are displayed, while the company capabilities in the logistic support, training and maintenance domain are exhibited into the "Training Systems" area.

Finmeccanica static display

In the Finmeccanica static display area, for the first time SELEX Sistemi Integrati displays NEXOS, an all-terrain Surveillance (Quad vehicle) unit, equipped with a LYRA 10 radar, a laptop and a Communications kit for Homeland Protection missions. Besides, the Company also shows a RAT31DL/M (DADR – Deployable Air Defence Radar) 3D Air Defence tactical radar, representing the best seller Long Range System within NATO in the last few years.

Products**Static****NEXOS**

NEXOS is a Quad-mounted Surveillance unit equipped with a LYRA 10 radar, a laptop and a Communications kit. It is part of the MANDRA Border and Area Protection System, consisting of highly mobile all-terrain units, deployable, modular and network connected in full compliance to the NEC/NCO doctrines. NEXOS is available for military Corps or non-military Authorities, for Surveillance and Reconnaissance missions. Depending on the landscape characteristics, NEXOS is able to cover an area up to 50 km side for 10/15 km. MANDRA consists of 8 different kind of some similar all-terrain units, depending on the functions assigned to each type of integrated units for each specific mission profile.

RAT31DL/M (DADR)

RAT31DL/M (DADR-Deployable Air Defence Radar) is the mobile version of RAT31DL, an advanced L-band (NATO D-band) solid state phased array, 3D Air Defence radar, specifically designed to support the NATO troops and effective to a range of over 500 km. The whole tactical system is housed in two 20 ft ISO container, mounted on two commercial cross-country trucks for land mobility.

Twelve RAT31DL fixed configuration have been recently ordered by the Italian Defence Administration.

Stand**ARCHIMEDE System**

ARCHIMEDE is an Harbour Protection and Surveillance system. It is an integrated tactical system, highly modular, transportable and quickly deployable. ARCHIMEDE integrates heterogeneous sensors (radar, E/O & sonars, sonobuoy) and unmanned vehicles (surface, underwater & air), exchanging data and information all over a complex environment (above water, under water, sea surface, air) and providing a complete operations picture of the protected area. The System is a field-proven one, since it has demonstrated its capabilities at the NATO Harbour Protection Trials both in 2007 and 2008 Campaigns. It is based on a complex system architecture, which allows the merging and processing of data from different sensors.

VTMIS-Vessel Traffic Management Information System

The Vessel Traffic Management Information System provides advanced solutions for coastal and maritime surveillance and maritime environment monitoring, included support to search and rescue operations on wide geographical areas. The System architecture is based on a nation-wide network, connecting Local, Area and Central control Centres, interacting at different operational levels.

The console on show is stimulated by a synthetic environment consisting of a virtual scenario and some sensors simulators.

ForzaNEC-BIT (Brigata Integrata Terrestre) demonstrator

ForzaNEC System demonstrator for the Land Forces digitalization, with the aims of improving their operational efficiency in the Out-of-Area and Expeditionary Operations, is especially designed to support Peace-Keeping and Peace-Enforcement mission profiles.

The demonstrator exhibited at Le Bourget supports, by means of proper simulations, the analysis of the system architecture applied to the BIT-Brigata Integrata Terrestre (Land Forces Integrated Brigade) program. The main tools of the demonstrator are a Scenario Generator and Animator, a Communication simulated environment and some simulators for platforms (tanks and UAVs), sensors and effectors.

Civil Protection Informative System

Civil Protection Informative System realized by SELEX Sistemi Integrati, is a Situation Room operational h24 to ensure operations planning, resources assignment and management, data and information collection, processing, sharing and display. To support the decision-making process, the Situation Rooms by SELEX Sistemi Integrati typically deploy at least 12 Working Positions, to ensure safety and security to people, infrastructures and goods and environmental protection on wide areas at Regional or National level.

ATM (Air Traffic Management) demonstrator

The ATM demonstrator consists of SAIL, the A-SMGCS of SELEX Sistemi Integrati and ADAM, the Multilateration Systems produced by the Finmeccanica Company. SAIL allows complete surveillance and control of ground movements on the airport surface and surrounding airspace. ADAM provides a high performance and accurate all-weather Surveillance for Airport and Wide Area applications.

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