

## SELEX SISTEMI INTEGRATI AT FARNBOROUGH INTERNATIONAL 2008

***For the first time on show the man portable radar LYRA 10, together with RAT 31DL/M and the prototype of KRONOS 3D. The company displays its capabilities in a Control Room for a Large System simulation and presents its customer support capabilities through ASSYST a system for remote logistic support. Also on show a VTS console, an ATM demonstrator, a SIAC console, a Defence Portal console and the Gold Standard simulator.***

SELEX Sistemi Integrati, a Finmeccanica company, world leader in delivering sensors and systems for air defence, air traffic and airport control management, battlefield systems, naval warfare and coastal and maritime surveillance, takes part to the 2008 edition of the Airspace exhibition of Farnborough, from 14<sup>th</sup> to 20<sup>th</sup> July.

The company, within Finmeccanica exhibition area, displays its most vanguard production in radar systems and in the design and development of Large Systems 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 under a social point of view, being considered equipments able to protect territories, people, institutions, critical infrastructures from the terrorist menace and natural disasters.

At Farnborough 2008, into Finmeccanica stand, the highest expression of the company capabilities in this domain is a Control Room in which SELEX Sistemi Integrati has the task of systems' integrator of its and other Finmeccanica companies' capabilities and products. In the Room a crisis management simulation is displayed, within a wider scenario in which several simultaneous operational missions are managed.

A new offer from SELEX Sistemi Integrati in the simulation field is ASSYST (Avatar baSed SYstem mainTenance) system, showing innovative solutions in the customer service domain. The system, displayed within a dedicated area, through a virtual multimedia device, shows all the company's capabilities in customer support and assistance.

SELEX Sistemi Integrati also displays an Air Traffic Management demonstrator, a VTS console for maritime traffic management, a console of a Defence Portal, a SIAC (System Integration and Acceptance Centre) simulator. Finally, the company also shows a simulator to train contingency managers, within the Gold Standard project, a programme for the British Cabinet Office, supporting UK's National Security and Resilience at the strategic level.

In the Finmeccanica area dedicated to the static display, for the very first time, SELEX Sistemi Integrati displays the man portable radar LYRA 10, designed for Homeland Protection tasks. Besides the new sensor, the company also shows RAT31DL/M (DADR – Deployable Air Defence Radar), a 3D tactical radar for air defence representing the most sold Long Range System within NATO in the last six years and KRONOS, a multi role, medium range, C band, 3D radar, which is going to be used both for naval and land applications.

**SELEX Sistemi Integrati**, a Finmeccanica company, designs and develops Large Systems for Homeland Protection, systems and radar for air defence, battlefield management, naval warfare, air traffic control, coastal and maritime surveillance. Fifty years of experience in system integration have created a customer base in no less than 150 countries. **SELEX Sistemi Integrati** has complete mastery of the advanced technologies involved – the company's true wealth and expertise – as well as an extensive commercial offer of state-of-the-art solutions and products, backed up by full logistic support.

With about 3,000 employees and plants in Italy, the UK, Germany and the USA, **SELEX Sistemi Integrati** is a leader in research and development thanks to annual investments amounting to 20% of the production value.

## Products

### Finmeccanica static display: LYRA, RAT 31DL/M, KRONOS 3D

#### LYRA

The radar LYRA 10 series, part of the LYRA radar family, is the most recent system completely designed and developed by SELEX Sistemi Integrati specifically for Homeland Protection (HP). It is a 25 kilogram small radar (70X40X25 cm) available for fixed installations on a tower or on a suitable vehicle and man portable (MP) applications thanks to its high mobility. The LYRA radar family is currently composed of the LYRA 10 series for Homeland Protection, LYRA 50 series for VTS applications and coastline surveillance, LYRA 80 series for coastal surveillance applications.

#### KRONOS 3D

KRONOS 3D is a 3D, multi-role, medium range, C-Band radar whose main role is the surveillance of the surrounding space to detect, identify and track targets and to provide the weapon system with target indication. It is manufactured in two different versions for land (KRONOS Lnd) and naval missions (KRONOS NV).

#### RAT31DL/M (DADR)

RAT 31DL/M (DADR- Deployable Air Defence Radar) is the mobile version of RAT 31DL, advanced L-band (NATO D- band) solid state phased array, 3D air defence radar, effective to a range of over 450 km. The antenna is housed in one container plus a shelterized control centre. The whole system is mounted on two commercial cross-country trucks.

### Finmeccanica Stand

#### ASSYST system

ASSYST (Avatar baSed SYstem mainTenance) is an advanced system of collaborative work developed by SELEX Sistemi Integrati, based on virtual reality technologies for remote customer support. It connects the on site operator with a "remote specialist" who, in real time, receives a "stereoscopic" view of the environment in which to operate the maintenance.

#### System Integration and Acceptance Centre (SIAC) simulator

SIAC -System Integration and Acceptance Centre- is an integration environment consisting of a simulation system, which virtually replicates the integration of command and control architectures and weapon systems onboard. SIAC supports the whole life-cycle of a Combat System, from design to development, integration, training and maintenance.

#### Vessel Traffic Management Systems (VTMS) console

The Vessel Traffic Management System provides advanced solutions for coastal and maritime surveillance and maritime environment, included support to search and rescue operations on wide geographical areas. The System architecture is based on multiple control layers, identified as: Local, Area and Central, interacting at different operational levels.

#### ATM demonstrator

The ATM demonstrator consists of an A-SMGCS (SAIL) and an Automatic Dependant Surveillance-Broadcast (ADS-B) system. A-SMGCS allows complete control of ground movements on the airport area. ADS-B is a high performance ground station for en-route, terminal and airport surveillance applications.

## **Defence Portal console**

The C4I Defence Portal is designed and manufactured to integrate, in a Network centric mode, operational services and data which feed the C4I systems' networks of defence. The product integrates and presents data which were previously available fragmented and scattered on several different systems.

## **GOLD STANDARD simulator**

Project Gold Standard is part of a UK Cabinet Office programme that supports UK's National Security and Resilience at the strategic level. With the aim of facilitating inter-agency co-operation, the programme is based on a computerised exercise management system, which delivers a disaster scenario through a synthetic environment. The system provides realistic situations for strategic decision makers to resolve in the context of short and long term consequences.

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