Madrid, 4th - 6th March 2014

Selex ES exhibits its complete airport systems at World ATM Congress 2014

Selex ES, a Finmeccanica company, is exhibiting at the World ATM Congress (WAC) at the IFEMA Conference and Exhibition centre in Madrid, Spain, from 4th to 6th March 2014 (hall 9, stand 1139).

From meteorological to surveillance sensors, from ground to en-route Air Traffic Management (ATM) systems, Selex ES offers a complete capability portfolio. The company is the ideal technological partner for integrated airports, taking on responsibility for designing, producing, installing and setting up all required operational configurations.

The wide range of solutions offered by Selex ES has led to its ATC products and systems being selected by 150 countries. Internationally, Selex ES is firmly committed to defining new standards for air traffic management systems. This can be seen in key programmes such as SESAR (Single European Sky ATM Research) and Coflight (a joint-programme in Italy, France and Switzerland). Its subsidiary companies Selex ES Inc. (navigation aids) and Selex ES GmbH (weather surveillance) further reinforce the capability of Selex ES to provide global solutions in the ATM and airport domains.

Selex ES is displaying its **Improved Surface-En Route ATM demonstration system** which has been integrated with several advanced functionalities. Also on show are the **Swim Box™**, the **MGS 100 Multi-mode Ground Station, the D100 series Multi-mode Digital Radio, the VRC VoIP Remote Control** and the **ONM100 Open Network Management System.** On the same stand, our US subsidiary Selex ES Inc. will showcase the **Model 3300 ADS-B/MLAT.**

Products on display

Improved Surface-En Route ATM demonstration system
A demonstrator platform showing, on a reduced scale, Selex ES's most advanced solution for Ground and En Route ATM integration. These have been validated in several SESAR exercises and are ready for the SESAR deployment phase. Advanced functionality includes up-to-date Mode-S solutions such as the ground monitoring of aircraft-derived data, the double-stack Controller Pilot Data Link Communication, the arrival management and the SESAR-compliant A-SMGCS (Advanced – Surface movements and ground control system), including Departure Management and Departure Clearances via Data Link. The solutions are in complete compliance with various different operational requirements and air traffic management environments, ranging from large, nation-wide, en route area control centres to small approach control units. The demonstrator interoperates with a remote client representing a generic ATM stakeholder interconnected through the Selex ES SWIM BOX™.

SWIM BOX™ is based on open and modular architecture for System Wide Information Management (SWIM), enabling the seamless communication among diverse ATM applications through standardised interfaces.

MGS 100 Multi-mode Ground Station
Based on a software-defined radio technology, the MGS100 multi-mode ground station meets the challenging requirements for ground-air-ground communications, supporting present and future civil and military ATC applications. Different data link technologies can be provided via a unique, integrated and cost-effective approach. The MGS100 Multi-mode Ground Station exceeds ICAO and ETSI standards for AM-DSB mode for ATC ground-to-air voice communication systems.

D100 series Multi-mode Digital Radio Equipment
The D100 radio series is a multi-mode digital radio family which can implement all communication standards foreseen by ICAO without modifying hardware and modules. It can also be easily configured for Voice networks with traditional analogue AM-DSB modulation.

Thanks to the implementation of the EUROCAE ED-137B standard VoIP protocol, Selex ES radio equipment can be directly interfaced to an IP network to transmit voice.

VRC VoIP Remote Control
The VoIP Remote Control (VRC) provides the same facilities as legacy Selex ES remote controls with the advantages of a VoIP protocol, according to EUROCAE standards, and a powerful Human Machine Interface. The touch screen display provides the suitable commands to perform operating commands towards the D100 equipment.

ONM100 Open Network Management System
The ONM100 system is the Selex ES Network Management for ATC radio communication systems. The Open Network Management system ONM100 assists problem solving, minimises non-operational
time, enables easy reconfiguration of radio equipment to meet new operational needs and monitors system parameters and performance to maintain the required system Quality of Service (QoS).

AeroMACS Ground Station
The AeroMACS Ground Station provides the wide-band datalink for ground services on the Airport surface, according to the performance targets provided by SESAR and SANDRA funded projects, to support current Airline Operational control (AOC) and future ATM environment.

Model 3300 ADS-B/MLAT
Selex ES inc. model 3300 is a high performance ADS-B ground station for en-route, terminal and airport surveillance applications that has been designed to support both US domestic and international installations.