

## **Surveillance Information Management background information**

SELEX Galileo is supplying the Surveillance Information Management (SIM) system to Surveillance Australia Pty Ltd (SAPL) within the contract SAPL signed with the Australian Customs Coastwatch to provide them with a complete surveillance capability. The system comprises SIM-A - air assets and SIM-G - ground assets.

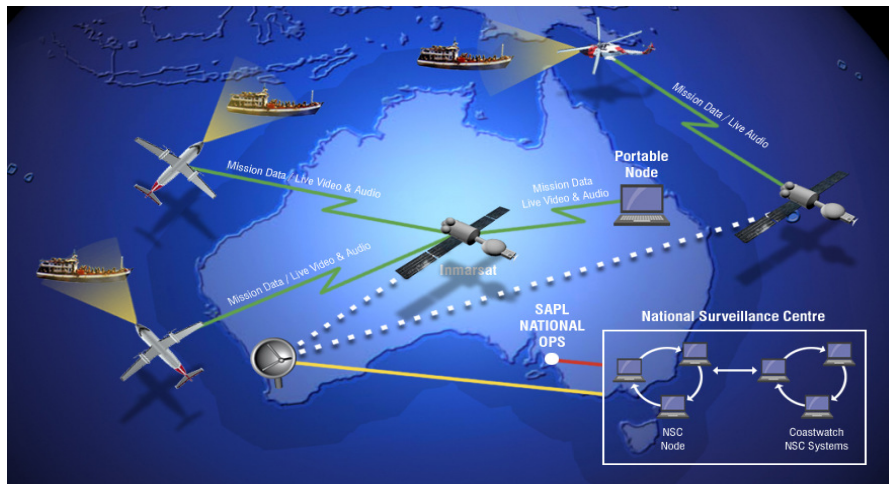
SIM-A is derived from SELEX Galileo's Airborne Tactical Observation and Surveillance (ATOS) system, already installed on a wide range of platforms with a number of international customers. For the Australian programme, SIM-A is installed on 10 Dash-8 aircraft and 2 helicopters.

The Coastwatch conducts maritime patrol operations 24 hours a day, 365 days per year. This means that the Coastwatch patrols for over 16,000 hours each year, covering 3700km of coast. The operations include detection, classification and identification of illegal immigration, illegal traffic, illegal fishing, quarantine threats, and smuggling.

SIM-A integrates and handles the information from different airborne sensors such as surveillance radar, Electro Optics (EO) including day & night sensors, communications and data link. The system is also responsible for the correlation, management, and capture of surveillance information. SIM-G is responsible for the planning, monitoring and evaluation of surveillance tasks.

SIM-G includes the National Surveillance Centre (NSC) Node and Portable Remote Nodes (PRN) for field use. The system meets the requirements of the Australian Customs Coastwatch Civil Maritime Surveillance 2004 (CMS04) project.

The systems will be used to manage information gathered by Civil Maritime Surveillance (CMS) aircraft, as represented in the following diagram:



The system will be used to develop and maintain a tactical database of target and tracking information within the aircraft. The information acquired by the aircraft fleet will be communicated to the Border Protection Command National Surveillance Centre (NSC) on a regular basis through a satellite communications link. The information will be used to maintain a current surface picture of Border Protection Command's area of interest. In addition, the system will upload tasking and planning information from the NSC before missions, so that each mission begins with the latest intelligence and data available.

### About SELEX Galileo's ATOS

The Airborne Tactical Observation and Surveillance (ATOS) system is an advanced and flexible airborne integrated observation and surveillance mission system. The system's modular and open architecture supports the inclusion of multiples sensors and workstations.

Main missions include

- > Offshore patrol
- > Search and rescue
- > Anti-pollution surveillance
- > Fishery protection
- > Anti-submarine warfare
- > Anti-smuggling

- ATOS has been designed with the capacity for significant growth for added roles/missions
- High performance and configurability ensured by the use of COTS components.
- ATOS can be easily installed and removed, and multiple configurations are available that fit aircraft of varying sizes

- Carefully designed man-machine interface and sensor integration minimises workload and stress increasing operator's situational awareness
- Based on MIL STD-1553B data bus and Ethernet LAN for data communication
- Redundancy for mission critical subsystems and backup functions for other equipment
- Use of multifunction console

### **About the ATOS family:**

#### **The ATOS U**

Includes one mini or mobile ground console and covers EEZ protection (fisheries control, anti smuggling, immigration control) and search and rescue. It is installed on UAVs, small helicopters and aircraft.

#### **The ATOS LW**

Developed for small aircraft and helicopters. Optimised for the Piaggio 166 and for the smaller Vulcanair P68 turboprop aircraft, ATOS LW can be easily adapted to any rotary or fixed wing platform.

#### **The ATOS C (COMPACT)**

The latest development of ATOS technology. ATOS C provides a modern solution to the operators console concept. Characterized by extreme modularity, ATOS C can be configured for single or multiple operators by adding identical modules. ATOS C can have two to four consoles.

#### **The ATOS E**

Includes four or more consoles and covers the above missions as well as anti surface ship warfare and anti submarine warfare. It is installed on large aircraft.

### **Press Office Contacts**

#### **Solange Distefano Pozzuoli Responsible for Press Office**

Tel: +39 06 41883710

Mob. +39 335 7499374

email: [solange.distefanopozzuoli@selexgalileo.com](mailto:solange.distefanopozzuoli@selexgalileo.com)

#### **John Stevenson**

#### **Press Office Coordinator**

Tel: +44 (0) 1268 883013

Mob. +44 (0) 7540 628691

email: [john.stevenson@selexgalileo.com](mailto:john.stevenson@selexgalileo.com)