

# New installations

completed in 2017



System upgrade on board the CASA 212 in Uruguay



Avionics and mission system upgrade on board the two Dornier 228 operated by the Finnish Border Guard



Upgrade of two systems for Malaysia



Two Dash 8 and one Dash 7 received system upgrade in Canada.

## Events

**Maritime Reconnaissance & Surveillance, Rome, Italy**  
25 - 27 September 2017

**Interspill, London, UK**  
13 - 15 March 2018

**Farnborough International Airshow, Farnborough, UK**  
16 - 22 July 2018

## About ST Airborne Systems

ST Airborne Systems first developed (under the name SSC Airborne Systems) an airborne remote sensing system for the Swedish Coast Guard in the 70's. Following a number of successful deliveries in Europe, in the late 90's we developed the MSS 5000 version of the system. This was first taken into operation in Norway in 1998, after which followed a number of installations for Coast Guard, Air Force and Navy customers in Sweden, Poland, Greece, USA and Portugal among others.

The MSS 6000 version of the system was first taken into operation by Transport Canada's Marine Safety branch in 2006. Since then we have delivered more than 25 MSS 6000 systems to customers around the world, installed in a number of different types of aircraft.

Today we offer the MSS 7000 which is built on new technology as well as on more than forty years of operational experience.

**Use it to enhance your maritime surveillance operation!**



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# MSS 6000 -> 7000 NEWS



*Representatives from the Ministry of the Interior of Estonia, Estonian Police and Border Guard, Bromma Air Maintenance and ST Airborne Systems in front of the Beechcraft 350i ER on board which the MSS 7000 system is being installed.*

### Estonia

Ministry of Interior and Estonian Police and Border Guard visit

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### Canada

System upgrade for three systems

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### Finland

Avionics and system upgrade

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### Malaysia

Two systems upgraded

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### Uruguay

System upgrade and operator training

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### MSS 7000 for Estonia

ST Airborne Systems is in cooperation with Bromma Air Maintenance AB (BAM) providing a new MSS 7000 equipped aircraft for the Estonian Police and Border Guard.

When the aircraft had arrived from the factory and had been painted in the colours of the Estonian Police and Border Guard, the Ministry of the Interior and Estonian Police and Border Guard came to inspect the work at the hangar of BAM.

At BAM the aircraft is undergoing a number of modifications including the installation of the MSS 7000 system. Training of pilots and system operators will take place in parallel.



New Beechcraft 350i ER to be operated by the Estonian Border Guard

The MSS 7000 equipped aircraft provides a superior working environment. Ergonomic seats are installed for two system operators and two observers. The operator consoles have been designed to give the operator immediate access to all functions of the system. Two identical consoles allow the two operators full flexibility in sharing the work load between themselves. A full communications suite ensures real time coordination with cooperating units and mission command at all times.

Each operator console has two large 23" touch screens and has several new features to facilitate ease of operation and accurate situational overview. Sensor data, maps and reports are presented in pre-assigned windows with pre-assigned locations on the screen.

There are several dedicated pre-defined window layouts or "profiles", each one optimised for a specific mission type. The operator can at any time switch between the mission types and/or save a personalized configuration.

All sensor data is correlated, recorded and can be overlaid on the digital map. New features include an integrated ship data base interacting with functions for target correlation and filtering. A media centre facilitates analysis and handling of videoclips and camera snapshots. A time slider makes it possible to go backward and forward in time, when reviewing how situations have developed in the course of a mission.



The operator console with two 23" touch screens

### Upgrade of Transport Canada's MSS 6000 systems



Transport Canada personnel and the Dash 7 and Dash 8 aircraft getting ready for new missions.

ST Airborne Systems has upgraded the three MSS 6000 systems flying on Transport Canada's two Dash 8 and one Dash 7. It This software upgrade will improve the efficiency and reliability of the systems as well as provide new functions for data export.

### Avionics and MSS 6000 upgrade for the Finnish Border Guard



BAM has performed a large avionics upgrade on the two Dornier 228 aircraft operated by the Finnish Border Guard.

The avionics upgrade consists of a new Flight Management System, complete 3-tube EFIS incl. electronic standby instrumentation, a new digital reference systems, a new digital audio system, new tactical communication suite, ADS-B, TCAS, TAWS A, weather radar and EFB systems, just to name a few highlights. At the same time the on board mission system computers of the two MSS 6000 systems from ST Airborne Systems as well as the search radar received a hardware and software upgrade to bring them up to the latest standards. In summary the airborne surveillance capability of the FBG has been greatly improved.

### Upgrade for Malaysia

The two MSS 6000 system operated by the Malaysian Maritime Enforcement Agency (MMEA) have received a software and hardware upgrade to improve the capability and processing speed of the systems.

At the same time the on board satcom system has been updated to give faster data transfer and more convenient handling for the system operators.



The MMEA flight crew and their two MSS 60000 equipped Bombardier 415 aircraft

### Upgrade and Operator Training for Uruguay



Eager system operators and pilots together with ST Airborne Systems instructor in front of the FAU surveillance aircraft.

ST Airborne Systems has successfully upgraded the sensor technology and performed yearly maintenance on the Mission System used by the Uruguayan Air Force on board their Casa 212 maritime surveillance aircraft. In connection with the upgrade both operator and maintenance training was carried out.

With the upgraded sensor technology, the Uruguayan Air Force will now be able to more effectively perform surveillance and patrol missions both covering their territorial waters as well as over land (green border surveillance) and inland waterways.