71% of the Earth is covered by water. More than 90% of the world’s trade is dependent on sea freight. Nearly two-thirds of the world’s population lives in coastal areas. When seaborne trade and human activities in the coastal zone expand, so do the threats. Piracy, oil pollution, illegal fishing and other criminal activities create new and growing demands on maritime security and safety.

Airborne surveillance is key to maritime superiority. With Saab’s new Maritime Surveillance Aircraft – the Saab 340 MSA – you will access a complete airborne operational system providing every tool you need to successfully safeguard your maritime domain. The Saab 340 MSA is the ideal platform for maritime surveillance, search and rescue and transport missions.

An aircraft prepared to meet the challenges out there.
THE SAAB 340 MSA is the ideal system for maritime surveillance. It brings outstanding performance and invaluable support to all kinds of surveillance and SAR operations, transport missions and the fight against illegal activities within your maritime domain. It’s a very capable multi-role aircraft that constitutes a powerful extension of your maritime surveillance capabilities, complementing your naval or land-based surveillance solutions.

The aircraft can operate from short airfields and its auxiliary fuel capabilities allow for missions up to 9 hours or 2000 NM range. This means that with the 340 MSA you will have the endurance to be out there when it happens and the technology needed to act in a suitable way. And that’s what safeguarding your waters is all about.

A FLEXIBLE SOLUTION FOR COMPLEX AND EVOLVING NEEDS:

- Maritime Surveillance
- Search and Rescue (SAR)
- Oil Spill and Pollution Detection
- Fisheries Inspection and Management
- Counter-Smuggling Surveillance
- Illegal Immigration Control
- EEZ Monitoring
- Transportation and Medevac
SECURING
MARITIME DOMAIN
AWARENESS

THE SAAB 340 MSA is a complete airborne operational system using the latest maritime products and technologies available. The heart of the 340 MSA is the Mission Management System. With a number of on-board sensors connected it gives the aircraft the capabilities required for monitoring large maritime areas day and night, in rain, snow or fog.

Communication is a key ingredient of maritime domain awareness. To provide continuing communication capabilities the Saab 340 MSA is equipped with Secure-AIS data links and a reliable SATCOM system. This makes it possible to send and receive orders from/to higher command or other units in a secure way, providing them with a real-time maritime common situational picture and a fast link for orders.

With the Saab 340 MSA you will access every tool you need to secure your maritime domain awareness.

360° MARITIME RADAR
A rugged and lightweight Maritime Surveillance and SAR/SAR Imaging Radar system delivering excellent performance and the ability to search, detect, and track multiple targets during over-water surveillance.

SECURE-AIS
Saab’s R4 A – Airborne AIS Transponder significantly improves situational awareness in surveillance operations and Search and Rescue (SAR).

WIRELESS IN-CABIN NETWORK
Wireless broadband system in cabin with Internet connections in crew rest area table and 220 V power supply.

MISSION MANAGEMENT SYSTEM (MMS)
MMS integrates multiple remote sensors and mission system components into one user-friendly, network-based data acquisition and processing framework. The system provides mission planning, real-time display of sensor data, immediate post-overpass analysis, support of any remote sensor, classification of marine pollution, automated scene analysis, computer-aided report creation, geo-referencing and GIS capability, in-flight and ground processing, display of electronic charts, redundant storage and AIS support.

RETRACTABLE MULTIPLE PAYLOAD EO/IR SENSOR
A full high-definition multi-spectral imaging system providing superior range and imaging performance, high-definition colour in low-light, infrared payload for expanded multi-spectral day and night imaging, enhanced standard definition videos, multiple laser payloads and multi-mode Autotracker.

VOICE AND DATA LINK SATCOM
The flexible and modular Satellite Communication system provide applications such as VPN, e-mail, telephony, Internet browsing and video streaming, over the Internet Protocol (IP).

TACTICAL COMMUNICATION SYSTEM
A tactical radio system that provides total communications capability in a complete multi-band solution, enabling you to talk on law enforcement, military, medical, marine, SAR and public-service frequencies.

DIRECTION FINDER
A sensor intended for search and rescue operations, covering the commercial airborne and maritime VHF radio band and Crispas Sarsat distress signals.

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The ability to detect, classify and identify maritime objects and to handle information effectively in real time is key to maritime domain awareness. To ensure these capabilities the Saab 340 MSA is equipped with Secure-AIS and SATCOM providing both voice and data link communication. The mission system is also integrated with the Cockpit Multi Functional Display and Flight Management System, which makes interaction with the pilots reliable, agile and efficient.

**THIS IS HOW IT WORKS**

When an unidentified object is detected or a distress call is received the radar sources are coordinated and a waypoint marking the object’s location is sent to the Flight Management System. As the aircraft closes in, radar and the SAR direction finder, together with AIS or the electro-optical sensor’s high-resolution TV-camera, are used to pick up emergency signals, detect debris or people in the water and identify the object or ship. The position is sent via SATCOM, video is streamed to the ground and other assets. After the incident a report is prepared and sent to the ground. All data gathered is stored in a database.
THE SAAB 340 MSA is designed to provide maximum performance at minimum cost. Based on the well-proven Saab 340 airliner the aircraft is built as standard with enhanced structural and system life. To date, only a small part of its technical and economic life span has been utilised. When transformed into a Maritime Surveillance Aircraft the airliner is re-manufactured by the same people that once built it and given a complete overhaul to deliver as new. With the same warranties as new and a design life at delivery of some 30 years of operation.

The fuselage is re-manufactured to suit the aircraft’s new tasks. The overhaul includes the addition of a range of new systems as well as a completely refurbished working environment featuring everything the crew need for enduring long missions in comfort.

By combining a successful, proven platform with a range of state-of-the-art equipment, the Saab 340 MSA has become one of the most affordable, reliable and capable Maritime Surveillance Aircraft available today. Built to deliver excellence.

The cabin of the Saab 340 MSA is of a high standard, equipped and furnished to provide a comfortable working environment with lots of space and standing height. The cabin comprises a galley, a lavatory and a spacious crew rest area with internet connection. There is also a large storage space in the rear.

GLOBALLY SUPPORTED
The Saab 340 Maritime Surveillance Aircraft is a globally supported security asset. Our support offer includes a wide range of services designed to improve availability and reduce costs – 24/7, all year round.
THE SPECIAL-MISSION AIRCRAFT EXPERIENCE

BUILDING A MARITIME SECURITY AIRCRAFT not only requires know-how about aircraft development and manufacturing. It is equally important to have expertise in situational awareness, communications and system-of-systems integration. At Saab we have it all. And we are constantly using it to provide innovative, affordable and capable solutions to our customers and partners worldwide.

Over the years we have developed and manufactured a range of special-mission aircraft. Among much else, our installed base includes a number of Saab 340 Maritime Security Aircraft as well as a range of Saab 340 and Saab 2000 Airborne Early Warning (AEW) systems delivered globally.

SAAB 340 MSA FACTS AND FIGURES

KEY PERFORMANCE DATA
Max endurance 6:30 h:min / 9:00 h:min*
Max range 1,300 nm / 2,000 nm*
Time on station 4:15 h:min / 6:15 h:min*
Time to climb 10,000 ft 5 min
Max cruise speed 265 knots
Patrol speed 140 knots
Take-off distance 1,350 m
Service ceiling 25,000 ft
* Auxiliary Fuel Tank

FEATURES
• 360° rotating maritime surveillance radar
• Retractable Multiple Payload EO/IR Sensor
• SatCom
• Mission Management System
• Automatic Identification System (AIS)
• Direction Finder (V/HF)
• Tactical Communication (VHF/UHF)

OPTION PACKS
• Search & Rescue
  – Large Observer Window
  – Air Drop Door
  – Environmental Monitoring
  – SLAR (Side-Looking Airborne Radar)
  – UV/IR Line Scanner
• Extended Endurance
• Auxiliary Fuel Tank

KEY FEATURES:
1. Lavatory
2. Galley
3. Mission Rack
4. Operator Console w. Seat
5. Crew Rest Area
6. Aft Cabin Wall
7. Cargo
8. Air Drop Door
9. Overwinging Emergency Exits
10. Entrance Door
11. Flight Attendant Seat
12. Stowage Life Raft

SURVEILLANCE LAYOUT

SEARCH AND RESCUE LAYOUT