

PROTECT YOUR ENVIRONMENT



Oil spill



Illegal fishing



Forest fire



Flooding



Search & Rescue



ST AIRBORNE SYSTEMS

Experts in maritime surveillance





MSS 8000 – NEXT GENERATION LAND AND MARITIME AIRBORNE SURVEILLANCE

Embracing the future, ST Airborne Systems is investing heavily in R&D and integrating advanced technologies that will transform the way surveillance is conducted.

At the forefront of innovation, we are adopting technological advancements in surveillance systems. Innovations, such as high-definition imaging, multispectral sensors and advanced radar systems, that enhance the capabilities of our systems enable better detection, tracking and identification of objects, which are crucial for your success.

Comprehensive Situational Awareness – the key to successful missions

All sensors are controlled from, and data is correlated in one tactical map. Our solution will seamlessly fuse data from both on-board and off-board sources—including UAVs—to deliver enhanced situational awareness and actionable intelligence.

Automate to reduce operator workload

Our new generation mission management system features powerful AI and machine learning capabilities that automate sensor control, target detection and classification and accelerate data processing, supporting the operator's real-time analysis, bringing higher accuracy, and faster, more well-informed decision-making. These intelligent systems reduce operator workload while increasing effectiveness, ensuring mission success.

Extensive use of augmented reality techniques

Overlaying both ground map and target data in RTV display windows to quickly geolocate and enable the operator

to provide important support to first responders and own ground resources.

Automated Sensor Operation – sensor control at your fingertips

Enhancing the sensor suite capability, reducing the workload of the operator, the MSS 8000 incorporates state-of-the-art solutions for full sensor control and automated operation of for example search radar and EO/IR. ASO is an AI-powered functionality that enhances airborne sensor platforms with real-time automation for faster, more efficient intelligence gathering and analysis.

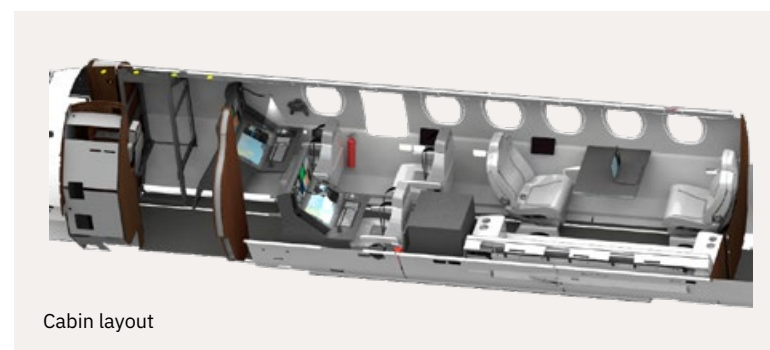
Finding the needle in the haystack

In today's data-rich surveillance environment, identifying what matters most can be a challenge. The MSS 8000 simplifies this task by intelligently fusing data from multiple sensors. These fused targets are then analyzed using advanced anomaly detection – whether rule-based, geofenced,

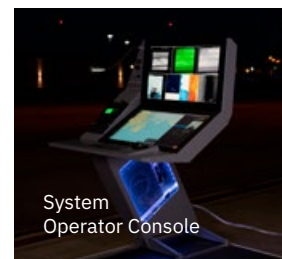
or AI-assisted – to quickly pinpoint and alert operators to items of interest.

Miniaturized electronics and agile designs allow our systems to be installed on a number of different platforms and to operate across a variety of mission profiles and environments. Combined with high-definition imaging, advanced AESA radar, Side Looking Airborne Radar, Airborne Multispectral Sensor, AIS, direction finder and COMINT (mobile and satellite phone detection and localization), our airborne systems offer unmatched performance in detection, tracking, and identification.

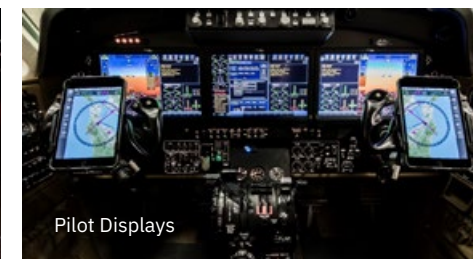
With growing global presence and strategic partnerships, we are meeting the rising demand for border and maritime security—empowering nations to combat threats like smuggling, human trafficking, and unauthorized entry with greater speed and confidence.



Cabin layout



System Operator Console



Pilot Displays

MSS 8000 – FOR FULL CONTROL OF YOUR ENVIRONMENT



MSS 8000 MISSION MANAGEMENT SYSTEM

Upgraded system HW and SW architecture ensuring long-term availability. Scalable solutions ranging from UAVs, rotary-wing to fixed-wing with multiple operator consoles. Built for real time-sharing of the operational picture with command centers and first responders.

1. System Operator Console

MSS 8000 display computer Dual 24" multi-touch screentrackball, joystick, keyboard.Highly ergonomic console design and operator chair. DZUS slots for intercom, radios etc.

2. Pilot Displays

Yoke mounted pilot displays for enhanced operational awareness

3. Rotating 360° Search Radar

Advanced True AESA radar, Instrumented range 200NM, Excellent small target detection in heavy sea clutter, Ground, Air and Maritime MTIStrip, Spot & ISAR imagery. AI-assisted target classification. High resolution ground mapping and change detection.

4. COMINT Mobile phone detection

Capable of locating and communicating

with mobile phones, finding people in distress or searching for specific mobile phones

5. AIS transponder

provides a comprehensive ship traffic overview

6. COMINT Satellite phone detection

Capable of locating and communicating with satellite phones, finding people in distress or searching for specific satellite phones.



7. Direction Finder

7. Direction Finder

Detection and localization of emergency beacons.

8. EO/IR with HD Daylight, HD MWIR

Combined HD Daylight spotter and HD SWIR Laser range finderOptional MTI SW and video map overlays. Automated Sensor Operator, including AI-assisted target detection & recognition.

9. Tactical Multi-band Radio

Multiband capabilities with frequency ranges from 30 – 960 MHz. Extensive encryption capabilities Cross channel repeat.

10. High-speed SATCOM

LEO or geo-stationary high-speed SATCOM solutions. HW- and SW-based firewalls ensuring high internet cybersecurity.

12. SLAR

Side Looking Airborne Radar. New, advanced solid state transceiver with enhanced range and detection capability. Primarily used for Oil spill detection. Small target detection at sea. AI-assisted target detection.

13. High-speed datalink

Long range, high speed tactical data link. Up to 16.5 Mbit/s. Range up to 200 km @ 6000 ft.

14. Airborne Multi-spectral Sensor, AMS VIS (RGB), SWIR, MWIR, LWIR & UV imaging sensor

Hi-resolution georeferenced ground mapping. AI-assisted target detection. For Search And Rescue, oil spills, wildfire detection, plastic pollution detection at sea, general thermography, ground water mapping, and wildlife census.

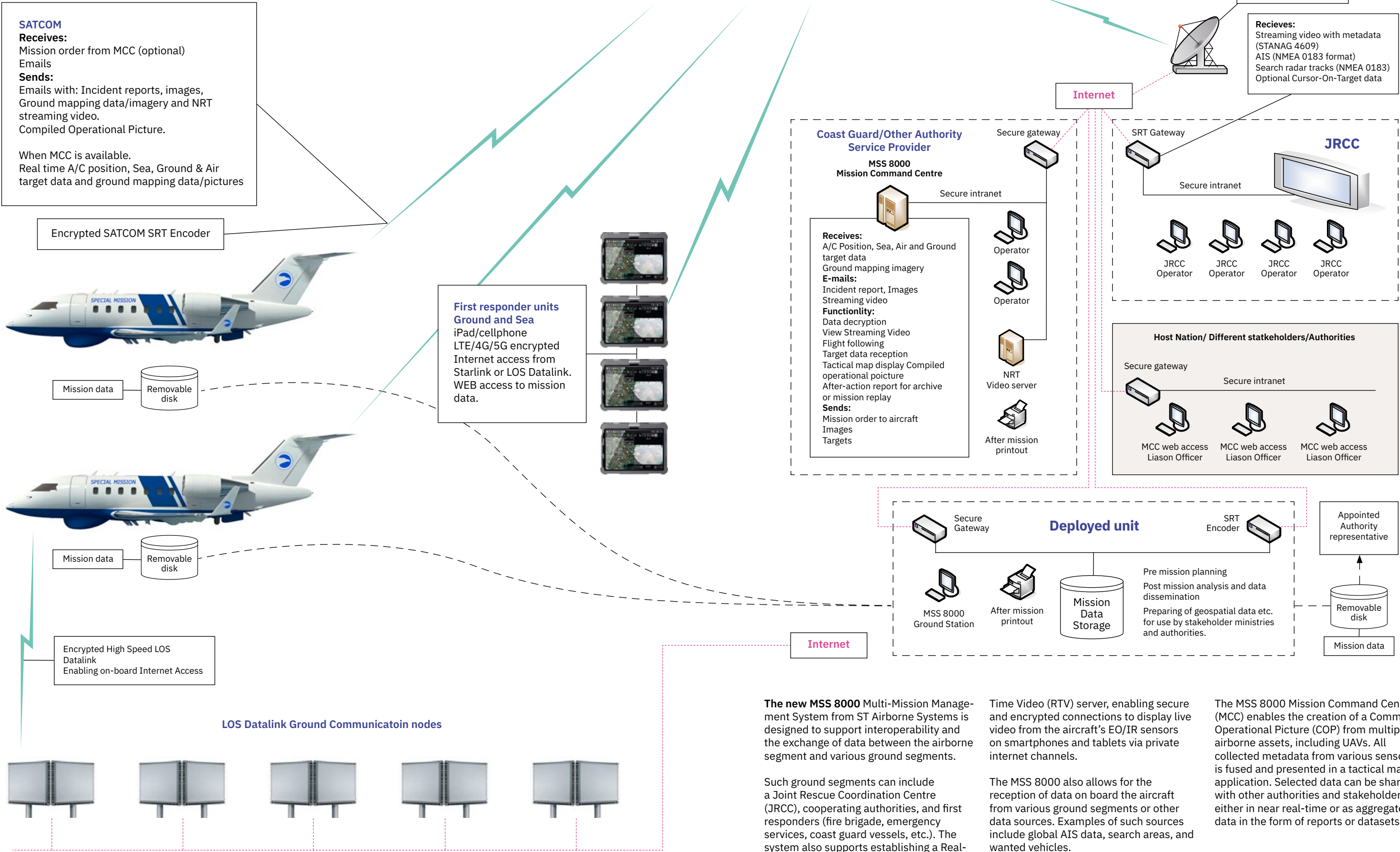
15. Cabin layout

1 – 3 main operator consoles. Additional liaison officer laptop-based workstations. Configuration for rotary-wing aircraft is available.

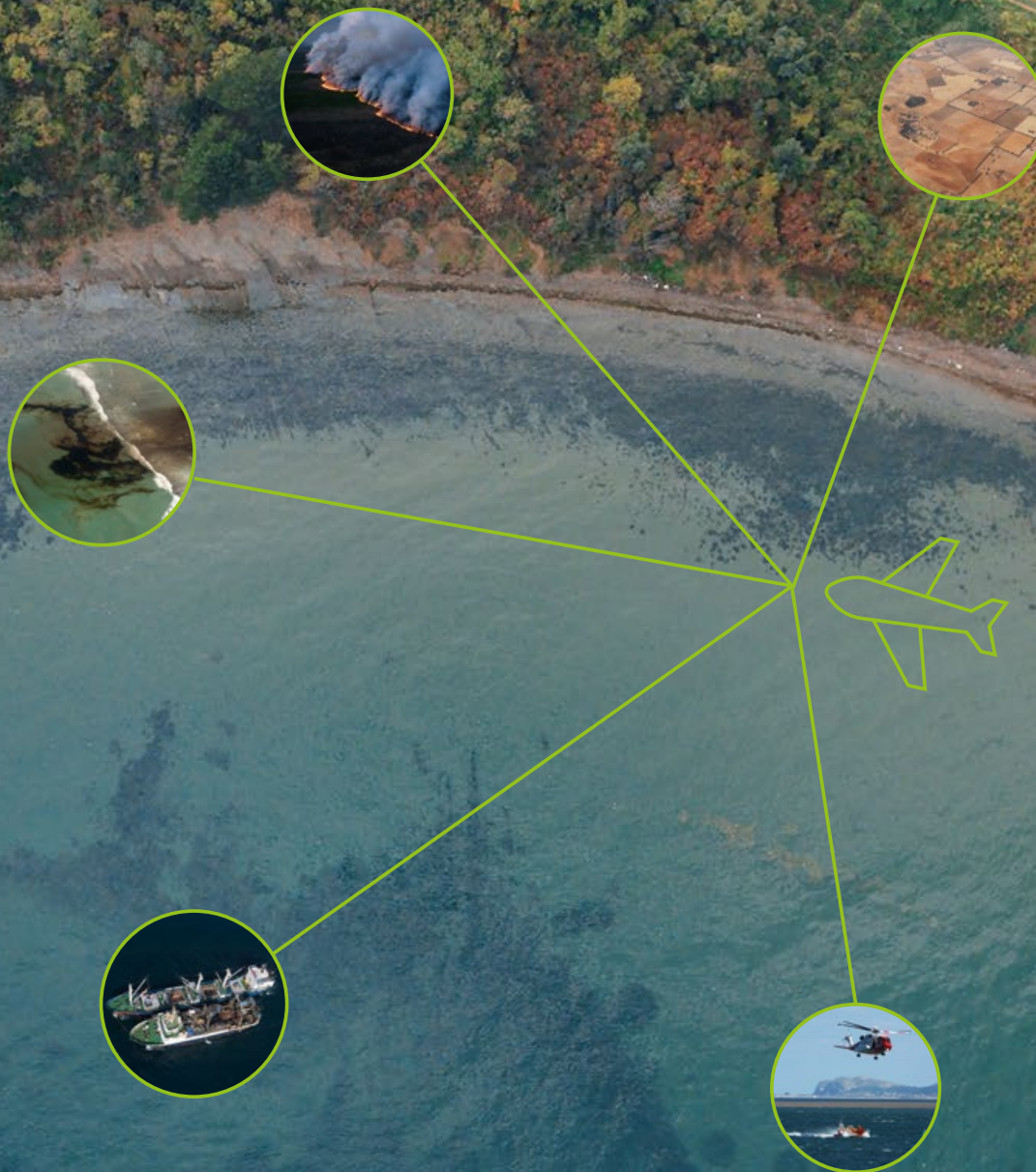
COMMUNICATION AND INTEROPERABILITY

LOW EARTH ORBIT SATELLITES

Offering high data rates, low latency, low data traffic fees.



PROTECT YOUR BORDERS AND NATURAL RESOURCES



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