

SPECTRIS

Cyber Aviation Solution



Where Courage Meets Technology

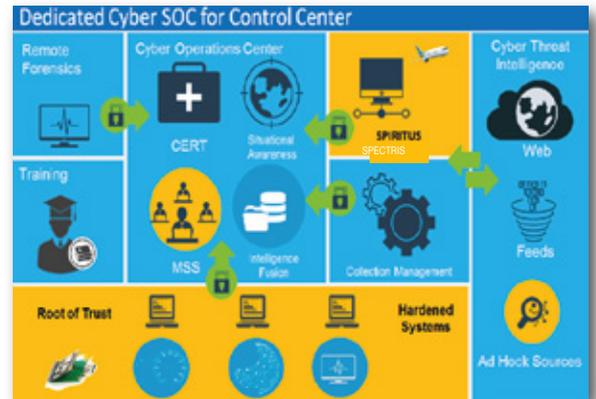
SPECTRIS- Cyber Aviation Solution

The commercial aviation sector consisting of airlines, airport authorities and system integrators/manufacturers is increasingly becoming a target for cyber-attacks. Airworthiness security risks associated with Intentional Unauthorized Electronic Interaction (IUEI) are a major concern for the aviation business sector, governments and regulatory aviation bodies such as the FAA, EASA and IATA.

Aviation threats can be physical such as targeted attacks against on-board or ground systems and network tampering or virtual attacks such as hacking ticketing or passenger management systems. Though IT cyber security systems can address some of the issues, they lack in dealing with events in real-time and across different platforms and networks.

SPECTRIS is an all-encompassing avionics cyber security solution that monitors and analyzes the flight-safety critical avionic systems and their network topology, and alerts

in real-time about potential anomalies that indicate of a potential cyber-attack. The solution comprises independent modules or can be integrated into a unified system. The main modules include:



Main Modules:

- Cyber Hardening/Protection of Avionic Systems
- Central Cyber Threat Intelligence Center
- Real Time Situational Awareness & Early Warning System
- Securing on-board computers and networks
- Remote Cyber Forensics
- Eco-System Threat Modeling

For post-analysis of events, SPECTRIS performs detailed forensics. As part of the service offering to further assist customers, IAI has set up a cyber-avionics lab for on-going avionics cyber vulnerability research.

Key Features:

- Monitoring, fusion, analysis & alerting – real-time monitoring and analyzes of flight-safety critical avionic systems and network buses and alerting of threatening events.
- Situational Awareness – Presenting in real-time the state of cyber security of avionic context, including call-to-action. Tailored to customer request.
- Malware forensics – avionics specific framework for analyzing malware.
- Training – multi-disciplinary training, based on a cyber-range/simulator and a rich syllabus of courses and exercises.
- Constant Innovation – continuous research and development, partnering with leading security technology partners, and associated with global security consortiums to ensure continual support and innovation to counter the ever-evolving global cyber threat

IAI is an active leader of the Israeli Aviation Cyber Companies Consortium (IAC3), a consortium, under the auspice of the Israeli Ministry of Industry and Trade, drawing together a diverse group of Israel's leading cyber and aviation companies. These companies include Check Point, CyberArk, Cockpit Innovation VC, Clearsky and Karamba Security.



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