



Airspace Risk Assessment Management Checklist

The Airspace Risk Assessment Management Checklist is a comprehensive tool designed to assist aircraft operators in systematically identifying, evaluating, and mitigating risks associated with airspace operations.

This checklist is fundamental for ensuring the safety and security of flight operations, especially when flying over or near conflict zones, or in the event of sudden geopolitical changes or unexpected military activities during a routine flight.

The checklist provides a structured approach to airspace risk assessment, enabling aircraft operators to maintain a high level of situational awareness and preparedness. It covers various aspects of threat identification, information collection, validation, and threat assessment, ensuring that all realised risks are thoroughly evaluated and treated.

By following the checklist, aircraft operators can implement additional mitigated safety and security measures to protect passengers, crew, and aircraft, including protocols for avoiding high-risk areas, and communication strategies to stay informed about potential threats.

This checklist is also available in the [IATA Airspace Risk Assessment Guidance \(2024\)](#), in the [IATA Position Papers & Press Release webpage](#), in the new edition of the [IATA SeMS Manual \(2025\)](#) and in the [SeMS Aviation Community](#).

Please contact aviationsecurity@iata.org for joining the Community or for any question.

Self-Assessment | Management Checklist

Airspace Risk Assessment Management Checklist

1. Threat Identification

a. Establish Baseline Awareness	Evaluation	
Identify current services, past, and planned destinations within the aircraft operator's network.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Identify all flight planned diversion airfields based on aircraft performance parameters.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Identify all Flight Information Regions (FIRs) transited or operated point-to-point.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Review conflict zone-specific guidance from State of Registry CAA and foreign authorities.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Maintain awareness of current geopolitical situations, actors involved and assess potential hostilities.	Yes <input type="checkbox"/>	No <input type="checkbox"/>

2. Cognitive Models for Threat Identification

a. Consider the use of Cognitive models	Evaluation	
Cynefin Framework	Yes <input type="checkbox"/>	No <input type="checkbox"/>
OODA Loop	Yes <input type="checkbox"/>	No <input type="checkbox"/>
SWOT Analysis	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Red Teaming	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Scenario Planning	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Black Sawn theory	Yes <input type="checkbox"/>	No <input type="checkbox"/>
VUCA Model	Yes <input type="checkbox"/>	No <input type="checkbox"/>

3. Information and Source Collection

a. Lagging Information	Evaluation	
Gather occurrence and incident reports, historical data, and post-event analyses.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Analyze patterns and trends in security incidents and benchmark against past data.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
b. Leading Information	Evaluation	
Collect intelligence reports on emerging threat and risk forecasts.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Utilize early warning systems to detect potential threats.	Yes <input type="checkbox"/>	No <input type="checkbox"/>

4. Critical Information for Threat Identification

	Evaluation	
Current and historical airspace restriction (AIP, AIC, NOTAM, SFAR, CZIB).	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Stability in the airspace and/or on the ground.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Profile of potential threat actors	Yes <input type="checkbox"/>	No <input type="checkbox"/>

Alert status of air defence forces.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Nature of ongoing militarized conflicts.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Use of militarized aircraft power.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Military equipment availability and access to anti-aircraft equipment.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Foreign policy statements of states towards another.	Yes <input type="checkbox"/>	No <input type="checkbox"/>

5. Validation of Information

a. Verify Information	Evaluation	
Confirm validity of information through state regulators or agencies.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Corroborate information across multiple sources.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Assess credibility and bias of sources.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Limit reliance on single-source information.	Yes <input type="checkbox"/>	No <input type="checkbox"/>

6. Intelligence Analysis and Modelling

a. Intelligence Cycle	Evaluation	
Collect, process, analyse, and disseminate security threat information.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Develop a comprehensive view of potential threats and enhance preparedness.	Yes <input type="checkbox"/>	No <input type="checkbox"/>

b. Predictive Models	Evaluation	
Utilize predictive models to forecast potential future events.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Examples include the Global Terrorism Database, ACLED, GFELT, world bank and IFM models, and social unrest models.	Yes <input type="checkbox"/>	No <input type="checkbox"/>

7. Threat Assessment

a. Evaluate Intent and Capability	Evaluation	
Assess threat actor's intent to execute specific threat scenarios.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Evaluate threat actor's access to material resources.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Consider weapons systems and their capabilities.	Yes <input type="checkbox"/>	No <input type="checkbox"/>

b. Unintentional Threats	Evaluation	
Assess the likelihood of unintentional threats due to misidentification or other factors.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Evaluate state and non-state actors' ability to deconflict airspace	Yes <input type="checkbox"/>	No <input type="checkbox"/>

8. Threat Assessment Rating

a. Determine Threat Levels	Evaluation	
Use an Intent versus Capability matrix to identify threat levels (very Low to High).	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Translate threat assessment outcomes into organizational threat levels (e.g., HIGH, MEDIUM, LOW).	Yes <input type="checkbox"/>	No <input type="checkbox"/>

b. Link to Risk Assessment	Evaluation	
Integrate with Safety Management Systems (SMS) and/or Security Management System (SeMS)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Conduct airspace risk assessments within existing risk management frameworks.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Identify specific hazards derived from identified threats.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Apply risk controls and monitor their effectiveness.	Yes <input type="checkbox"/>	No <input type="checkbox"/>

9. Key Performance Indicators (KPIs)

a. Establish Security KPIs	Evaluation	
Regularly review and communicate changes in risk assessment.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Ensure geopolitical competence within the organization.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Maintain appropriate governance structures.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Utilize external sources for independent information and advice.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Conduct annual crisis and contingency planning exercises.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Review and formally sign-off risk assessments periodically.	Yes <input type="checkbox"/>	No <input type="checkbox"/>

10. Review and Documentation

a. Regular Review	Evaluation	
Schedule regular reviews of airspace risk assessments.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Document key decisions made by the Head of Security and/or accountable manager	Yes <input type="checkbox"/>	No <input type="checkbox"/>

11. Governance and Communication

a. Establish Governance Body	Evaluation	
Form a security review committee with representatives from security, safety risk management, quality management, flight planning & dispatch, flight operations, legal, cybersecurity emergency management, and senior executives.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Ensure the committee has the authority to implement risk mitigation.	Yes <input type="checkbox"/>	No <input type="checkbox"/>

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