

الهيئة العامة للطيران المدني  
GENERAL CIVIL AVIATION AUTHORITY



# UAE Approach to Risk & Threat Management

Aviation Security Affairs Sector

ICAO MID Office - Cairo , Egypt



## Use of Doc 10084 Framework

The UAE incorporates ICAO's Doc 10084 methodology for consistent terminology, risk rating, and the design of airspace security assessments for conflict zones.



## International Requirements (Annex 17)

- 2.4.4
- 3.1.3
- 2.1.3

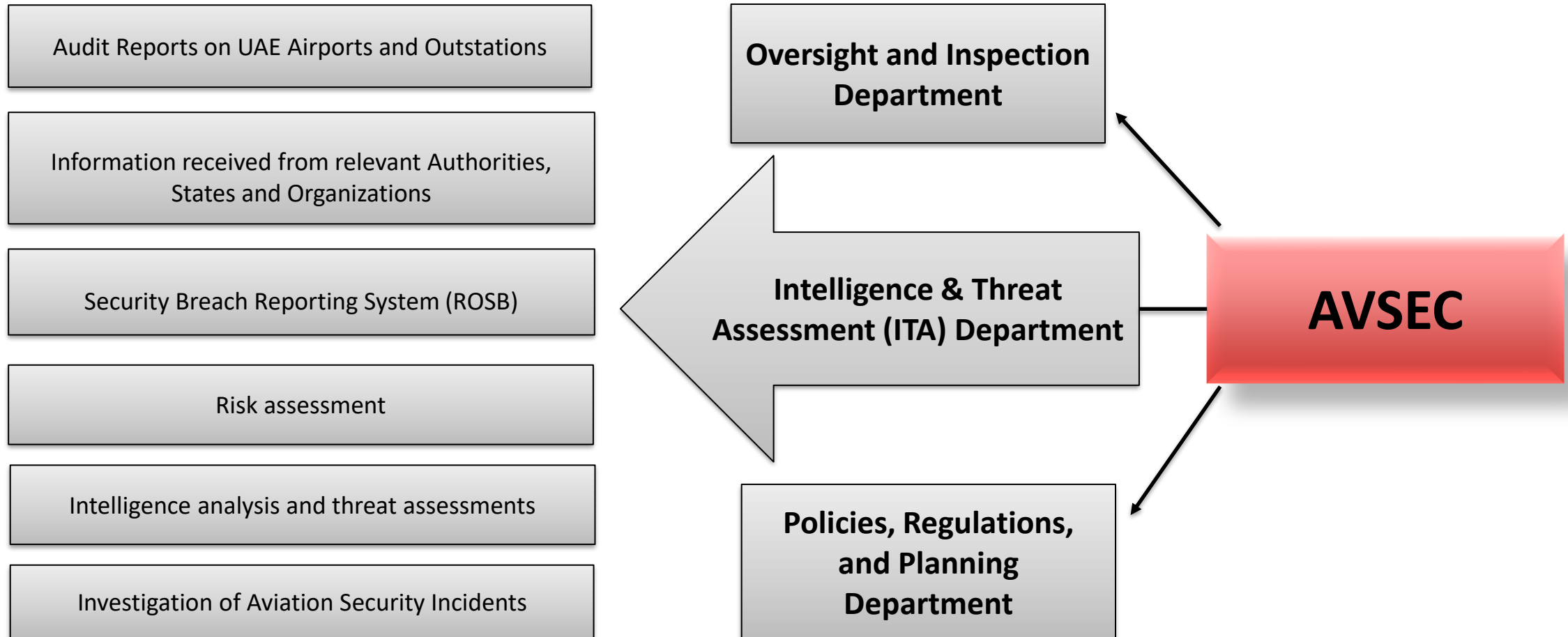
## National Requirements

- UAE Civil Aviation Regulations (CAR)
  - 2.2.4
  - 3.1.5
- National Civil Aviation Security Programm (NCASP)
  - 3.2.1
  - 3.2.2





## Organizational Structure – Aviation Security Affairs Sector





## Responsibilities ; But Not Limited

### Threat & Risk Management

- Perform risk & threat assessments on individuals, entities, and regulated parties.
- Assess potential threats to civil aviation and compile relevant data.
- Implement security measures and risk mitigation for high-risk flights and Last Ports of Call (LPCs).
- Conduct security tests to ensure aviation readiness.

### Intelligence

- Analyze intelligence and assess threats to aviation security.
- Monitor global intelligence sources for emerging risks.
- Collaborate with stakeholders to develop risk mitigation strategies.
- Build and maintain relationships with intelligence agencies and industry partners.

### Investigations

- Manage investigations into aviation security incidents and violations.
- Recommend improvements based on findings from security incidents.
- Maintain a database of security-related occurrences and breaches.
- Lead awareness programs to enhance threat awareness in aviation operations.





## National Threat & Risk Assessment Committees

The GCAA , In coordination with the relevant national concerned entities in the state, develops and maintain National Risk Context in civil aviation security on regular basis.

Threat And Risk Assessment Committees Against  
Civil Aviation Outside The Country

Threat And Risk Assessment Committees Against  
Civil Aviation Inside The Country





## Risk Assessment Process

### 1. Information Gathering

- Oversight activities reports
- Airlines risk assessments
- Intelligence information
- Security breach reporting systems (ROSB)
- Voluntary aviation security reports
- Aviation safety incident system (ROSI)



### 2. Analysis & Communication

- Analyze collected data
- If risk is identified, issue:
- Security Directives
  - Security Information Bulletins
  - Security Advisories



### 3. Follow-up & Verification

- Confirm implementation of corrective actions by relevant entities
- Coordinate with Inspection & Oversight





## LPCA: Airports Selection Criteria

### 1. Political Risks

- Government stability
- Corruption and governance
- Regulatory changes
- Trade restrictions or sanctions

### 2. Security Risks

- Level of crime and terrorism
- Civil unrest
- Travel advisories



### GCAA National Requirements for UAE Registered Aircrafts LPCA:

All UAE registered Operators **shall** conduct risk assessment at new locations and implement additional security measures, as necessary and mitigate risk. The risk assessment report **shall** be forwarded to the GCAA AVSEC Affairs Sector.



## Past Incidents Related To Conflict Zones & Lessons Learned

### Middle East Conflict Zones :

The ongoing tension significantly elevates airspace risk in the Middle East region.

As result UAE-registered aircraft have undergone a comprehensive operational review and the implementation of enhanced security mitigation measures, in line with security directives issued by the GCAA.

- Changing Flight Level ( 300+)
- Changing Flight Information Root (FIR)
- Modifying operating times
- Adjusting final approach into airports
- Implementing enhanced dispatch and flight monitoring plans.
- 24/7 ongoing monitoring.

### Lesson learned :

- **Adaptability:** Modify flight plans and schedules .
- **Proactive Management:** Regular reviews and enhanced security .
- **Risk Mitigation:** Adjust flight levels and times to reduce threats.
- **Stay Prepared:** Be ready for unpredictable conditions.







## AVSEC and Safety Collaborations

### **Collaboration between GCAA (AVSEC) and GCAA Safety**

- Joint efforts to enhance aviation security and safety standards.

### **Proactive Risk Assessment**

- Continuous monitoring and evaluation of airspace risks, particularly in conflict zones.

### **Global Cooperation**

- Partnering with international organizations to strengthen airspace management.

### **Exchange of Critical Information**

- Facilitating timely sharing of vital data to enhance situational awareness.

### **Improved Airspace Risk Management**

- Implementing strategies to mitigate risks and ensure safer operations.

### **Enhanced Safety & Security in or near Conflict Zones**

- Focusing on safeguarding aviation operations in or near conflict-affected regions.





## Geopolitical Challenges On Civil Aviation Operations On The Region

- Flight delays, airspace closures, and airport disruptions have become more frequent
- Danger of operating civilian flights in areas of military operations
- Delayed or unclear NOTAMs issued by relevant states, and advisories can lead to confusion and operational hazards.
- Lack of communication between civil and military authorities

These issues highlight the need for strong risk assessments, clear contingency plans, and greater international cooperation to keep aviation safe and running smoothly. As instability continues, the aviation sector must stay flexible and prepared for unexpected changes.





## UAE Collaboration with ICAO and Regional Partners

### Exchange of Threat and Risk Information

- Ongoing coordination with ICAO, other organizations and States for timely sharing of intelligence.
- The UAE currently serves as the Chair of the ICAO AVSEC Panel.
- The UAE is an active member of ICAO Working Group ;Threat & Risk ..etc .
- The next T&R working group meeting will be hosted in the UAE in November 2025.





## Conclusion: Strengthening Regional Collaboration

- **Our Commitment**

Together, we can enhance civil aviation safety and security by proactively managing conflict zone risks.

- **Importance of Sharing information**

Sharing timely threat information and best practices enables informed decision-making and coordinated responses.

- **Next Steps**

Let's continue to foster open communication and collaboration, both regionally and internationally.

- **Final Thought**

By working together, we can strengthen our collective resilience and ensure secure and safer skies for all.



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Thank You

