



# ICAO EUR/APAC SAR Workshop

## Civil/Military cooperation in SAR examples

Larnaca  
3<sup>rd</sup> Oct 2024



# JOINT RESCUE COORDINATION CENTER



## Civil/Military cooperation in SAR examples

- INTERNATIONAL LEGAL BASIS
- CHALLENGES IN CIVIL-MILITARY COOPERATION
- THE JRCC LARNACA EXAMPLE
- REAL LIFE EXAMPLE
- KEY FACTORS IN CIVIL-MILITARY COOPERATION
- CONCLUSIONS



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## International Legal Basis

### AERONAUTICAL SAR

- **Chicago Convention 1944**  
Convention on International Civil Aviation 1944, (Annex 12)

INTERNATIONAL CIVIL AVIATION ORGANIZATION

ICAO



### MARITIME SAR

- **Maritime SAR Convention 1979**  
International Convention on Maritime Search and Rescue
- **SOLAS Convention 1974**  
International Convention for the Safety of Life at Sea
- **UNCLOS 1982**  
UN Convention on Law of the Sea

INTERNATIONAL MARITIME ORGANIZATION

IMO





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## CHICAGO CONVENTION

- Signed in 1944
- Rules for air navigation
- ICAO establishment
- 194 States parties
- 19 Annexes

**Annex 12 sets forth the provisions applicable to the establishment, maintenance and operation of SAR services by Contracting States in their territories and over the high seas**





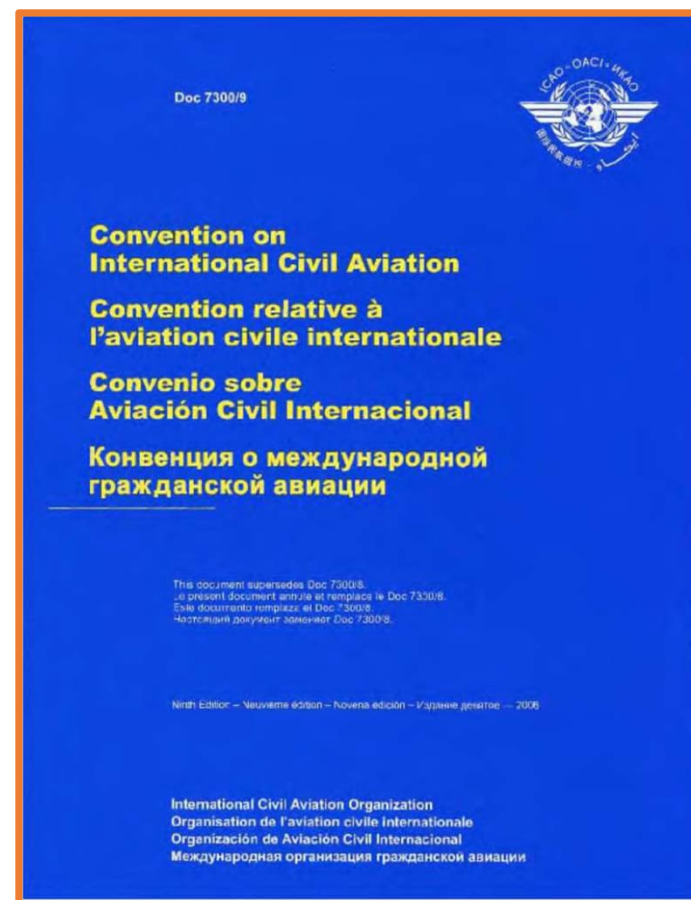
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## CHICAGO CONVENTION

### Fundamentals (Article 25)

- Every State has complete sovereignty over its airspace
- Each Contracting State undertakes to provide such measures of assistance to aircraft in distress in its territory as it may find practicable
- Each Contracting State, when searching for missing aircraft, will collaborate in coordinated measures that may be recommended from time to time according to this convention.





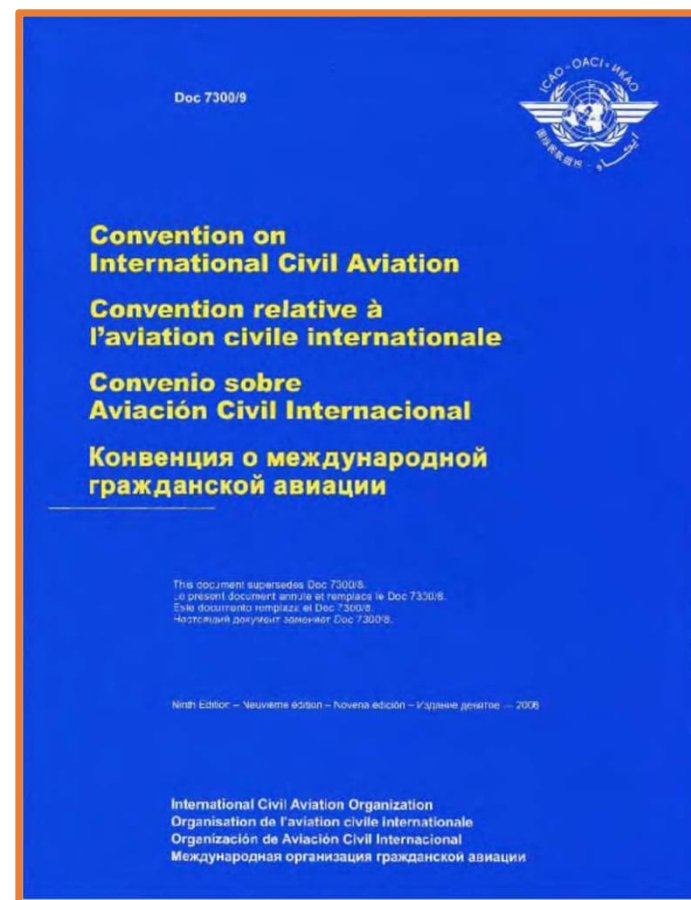
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## CHICAGO CONVENTION

### Fundamentals (Article 3)

- The convention applies only to Civil aircraft and shall not apply to State aircraft
- Aircrafts used in military and police services shall be deemed to be state aircraft
- No state aircraft of a contracting State shall fly over the territory of another State or land thereon without authorization (special agreement)





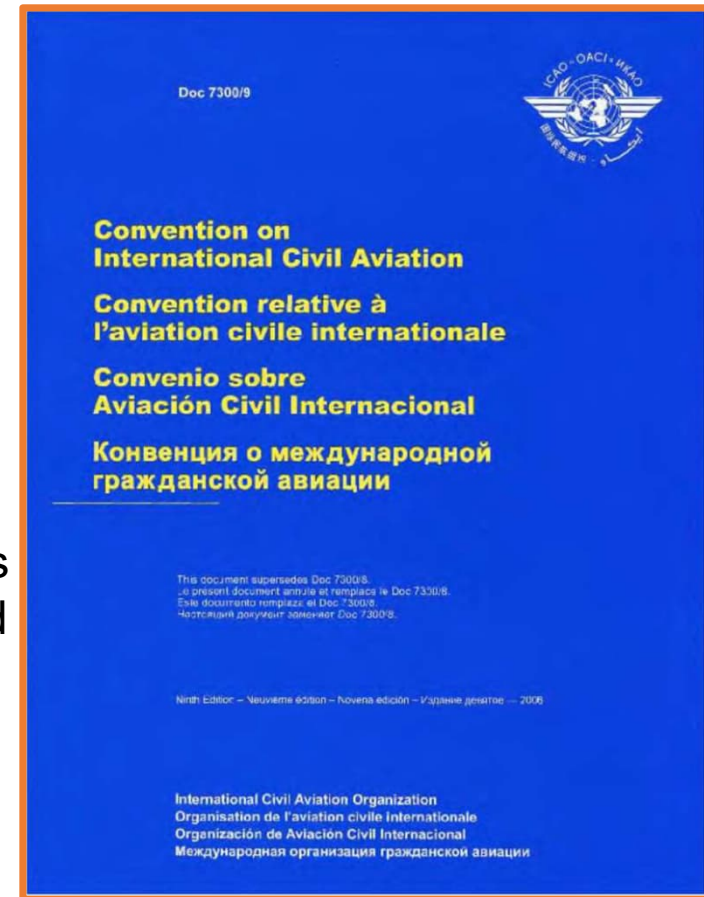
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## CHICAGO CONVENTION

### Fundamentals (Resolution A37-15)

- States should ensure that the operations of state aircraft do not compromise safety, regularity and efficiency of civil air traffic
- ICAO should provide advice and guidance on best practices for civil/military coordination and cooperation
- Contracting States should include representatives of military authorities in their delegations to attend ICAO meetings, and
- ICAO should serve as an international platform to facilitate improved civil/military cooperation, collaboration and sharing of best practices.



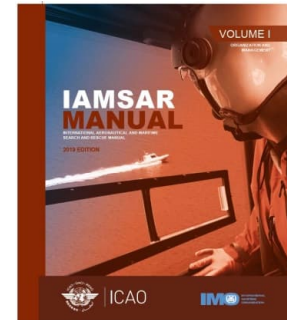


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## IAMSAR MANUAL

- Joint publication of ICAO and IMO;
- Widespread acceptance in aviation/maritime/civil/military SAR providers
- Comprehensive document in three volumes
- Successful in bridging the civil/military divide
- Recommended as the mainstay of management and coordination of cooperative missions.





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## IAMSAR MANUAL

### Volume I - Organization and Management

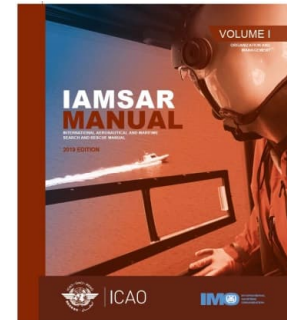
Discusses the global SAR system concept, establishment and improvement of national and regional SAR systems, and co-operation with neighboring States to provide effective and economical SAR services.

### Volume II - Mission Coordination

Assists personnel who plan and coordinate SAR operations and exercises.

### Volume III - Mobile Facilities

To be carried aboard rescue units, aircraft and vessels to help with performance of a search, rescue or on-scene coordinator function, and with aspects of SAR that pertain to their own emergencies.





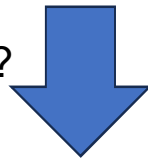
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## Challenges to Civil-Military Cooperation

### SAR Operations under the Military?

Challenges in Coordination?



- Gathering of intelligence from ATC
- Coordination with ATC
- Coordination with Aerodrome Operators
- Determination of search areas using civil parameters
- Tasking of sea and aircraft to civil standards
- Development of rescue plans, civilian culture
- Assurance of safety of SAR units and facilities to civil standards





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## Requirements

### Civil SAR

- Skills
- Knowledge,
- Attitudes from many sources and across many sectors
- Shared Resources
- Mutual dependence
- Voluntarism
- Willingness to respond in life-saving endeavor

Authority based on Function



### Military SAR

- Close respect for rank and authority,
- Unquestioned obedience to orders from within the defense sector, and
- Exacting and specific standards for explicit purposes
- High specs Resources-Appropriate Hardware
- High Capable Liveware

Authority based on Rank





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## Challenges to Civil-Military Cooperation

- Bring together the different cultures
- Common Behavior – Language during SAR
- Security (Confidential Data). Civil SAR planners don't need to know more than the military capacity/ability to accomplish the civil SAR task
- 2-way appreciation
- Safety Management
- Military demands 1-way command and control
- Integrate the essential Military Input

Legislation Development



Instruction, direction and coordination are essential in SAR, but the SAR culture is more broadly civil and ethical than combat operations.

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ICAO EUR/APAC SAR Workshop  
Civil/Military cooperation in SAR  
**The JRCC Larnaca Example**



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## ORGANIZATION AND OPERATION

ORGANIZATION AND OPERATION OF SAR SYSTEM

AND

COORDINATION OF SAR OPERATIONS

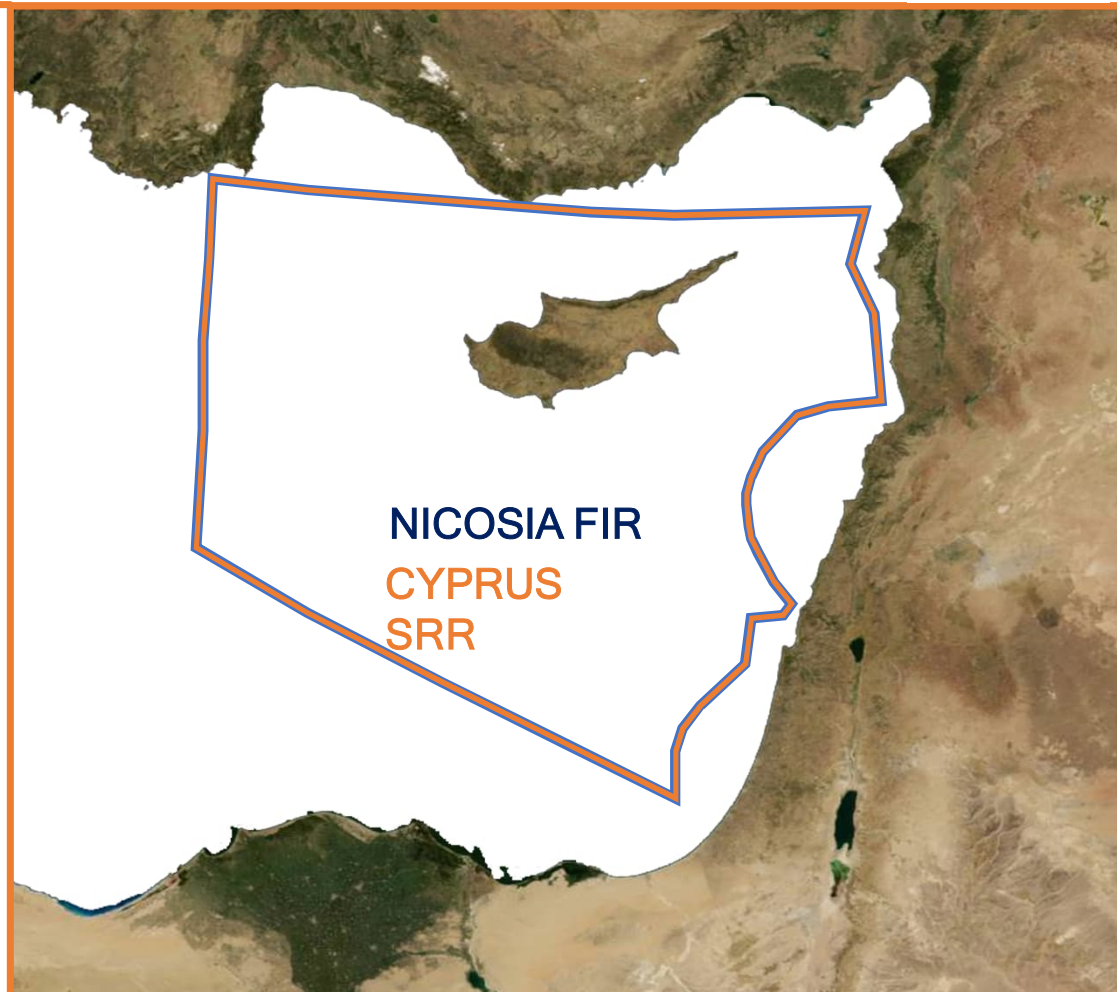
AIMING TO

LOCATE AND RESCUE PEOPLE IN DISTRESS.

CYPRUS' SEARCH AND RESCUE REGION

COINCIDES WITH

NICOSIA FIR





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## HISTORY

INTERNATIONAL CIVIL  
AVIATION ORGANIZATION



ICAO

CHICAGO CONVENTION  
1944

INTERNATIONAL MARITIME  
ORGANIZATION



HAMBURG CONVENTION 1979  
SOLAS 1974  
UNCLOS 1982

NATIONAL SAR  
LAW



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## Republic of Cyprus' legislation relevant to SAR



- Law 213 of 1988
  - Cyprus signed and ratified the Chicago Convention of 1944 (Aeronautical SAR - ICAO)
  
- Law 5 (III) of 1994
  - Cyprus signed and ratified the Hamburg Convention of 1979 (Maritime SAR - IMO)
  - Establishment of JRCC Larnaca (Article 6)
  
- Presidential Decree 283/2021
  - Specifies the primary and secondary SAR units
  - Sets the JRCC as the body responsible for issuing and amending the National SAR Plan.



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## Republic of Cyprus' legislation relevant to SAR



### Cyprus Law

- Aligned with accepted principles of international law
- Recognize SAR Services as a State responsibility
- Define the jurisdiction and legal authority of the RCC
- Designate SAR agencies and their general responsibilities



# ΚΕΝΤΡΟ ΣΥΝΤΟΝΙΣΜΟΥ ΕΡΕΥΝΑΣ -

## ΔΙΑΣΩΣΗΣ

### Presidential Decree 283/2021



#### α. Primary SAR Assets

1. Αεροσκάφη MRG της Εθνικής Φρουράς. MRG Airplanes of NG/ Airforce
2. Ελικόπτερα HEL – Μ της Εθνικής Φρουράς. HEL-M of NG
3. Ελικόπτερα HEL – Μ της Αστυνομίας Κύπρου.
4. Πλωτά μέσα της Εθνικής Φρουράς (Ταχύπλοα σκάφη, Περιπολικά, Πλοία Ανοικτής Θαλάσσης και Πλοίο Υποστήριξης) RV (25), RB (25), RV (15), RB (15), RB (10). Warships from NG/Cyprus Navy
5. Πλωτά μέσα της Αστυνομίας RV (25), RB (25), RB (15), RB (10).
6. Ομάδες Διάσωσης της Ειδικής Ομάδας Αντιμετώπισης Καταστροφών (ΕΜΑΚ) της Πυροσβεστικής Υπηρεσίας.
7. Ασθενοφόρα, Ιατρικό και Νοσηλευτικό προσωπικό του Υπουργείου Υγείας και του ΟΚΥΠΥ, ειδικά εκπαιδευμένο να επιβαίνει επί των πλωτών και πτητικών σωστικών μέσων της Κ.Δ, συμπεριλαμβανομένων και των Ειδικών Νοσηλευτικών Ομάδων Αεροδιακομιδών, με έδρα τα 2 αεροδρόμια της Κ.Δ.
8. Ομάδες δυτών της ΓΕΕΦ/ΔΝ/ΜΥΚ, της Λιμενικής και Ναυτικής Αστυνομίας και της Μοίρας Αεροπορικών Επιχειρήσεων της Αστυνομίας. Divers from NG/Cyprus Navy

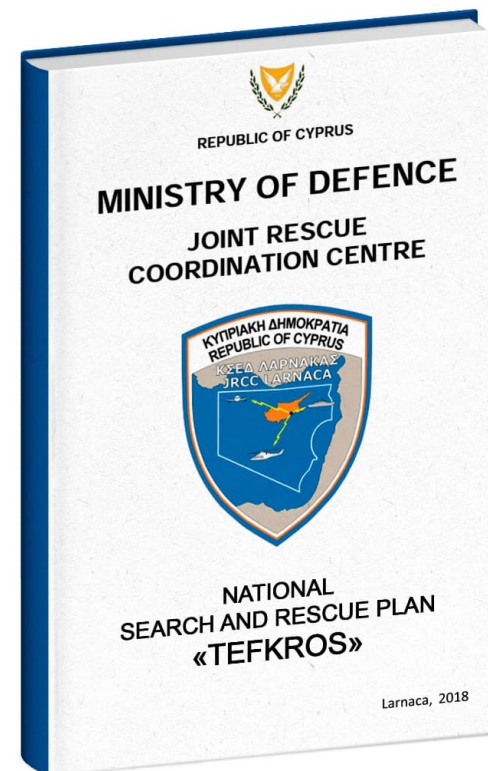
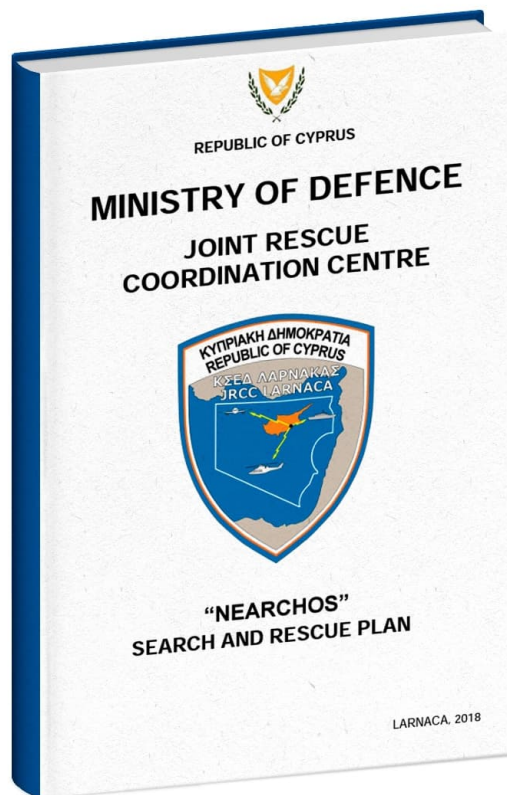
#### β. Πρωτεύοντα Μέσα Ε-Δ Κατηγορίας «Β» (60')

1. Προσωπικό των Ομάδων Διάσωσης της Πολιτικής Άμυνας, το οποίο είναι εκπαιδευμένο να συμμετέχει σε επιχειρήσεις Ε-Δ του Κέντρου Συντονισμού Έρευνας και Διάσωσης (ΚΣΕΔ).
2. Ομάδα Ειδικών Επιχειρήσεων/ΛΕΕ της ΓΕΕΦ/ΔΚ. SOF Teams from NG/Cyprus Army
3. Σύστημα Παράκτιας Παρατήρησης τους ΚΣΕΔ.
4. Μη Επανδρωμένα Αεροσκάφη της ΓΕΕΦ/ΔΑ. UAVs from NG/Airforce



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## ORGANIZATION AND OPERATION





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## Participating Units- Services per Case

1. National Guard
2. Cyprus Police
3. Fire Brigade
4. Civil Defence
5. Ministry of Health
6. Ambulance Services
7. Department of Civil Aviation (DCA)
8. Airport Operator
9. Airline Representative
10. Air Accident and Incident Investigation Committee
11. Maritime Incident Investigation Committee
12. Deputy Ministry of Shipping (DMS)
13. Department of Fisheries and Marine Research
14. Department of Water Development
15. Ports Authority
16. Port Operators
17. Ship owners
18. Platform Manager
19. Platform Owner Company
20. Forestry Department
21. Marine Accident and Incident Investigation Committee
22. ~~Passing merchant ships~~
23. Warships and Aircrafts of Foreign States in the Region
24. UNIFIL – UNFICYP



# AGENCIES INVOLVED IN MRO INCIDENTS

- ### AIRCRAH INLAND
- POLICE
  - FIRE SERVICE
  - NGHQ
  - HEALTH MINISTRY
  - CIVIL DEFENSE
  - FORESTRY DEPARTMENT
  - AAIIB
  - MOD
  - MTCW
  - MFA
  - DCA
  - HERMES AIRPORT
  - OPERATOR
  - SOCIAL SERVICES

- ### AIRCRAH IN DAMS
- POLICE
  - FIRE SERVICE
  - NGHQ
  - MINISTRY OF HEALTH
  - CIVIL DEFENSE
  - FORESTRY DEPARTMENT
  - AAIIB
  - MOD
  - MTCW
  - MFA
  - DCA
  - HERMES AIRPORT
  - WATER DEVELOPMENT DEPARTMENT
  - OPERATOR
  - SOCIAL SERVICES

- ### SALT LAKE AIRCRAH
- POLICE
  - FIRE SERVICE
  - NGHQ
  - HEALTH MINISTRY
  - CIVIL DEFENSE
  - FORESTRY DEPARTMENT
  - AAIIB
  - MOD
  - MTCW
  - MFA
  - DCA
  - HERMES AIRPORT
  - OPERATOR
  - SOCIAL SERVICES

- ### AIRCRAH AT SEA
- POLICE
  - FIRE SERVICE
  - NGHQ
  - HEALTH MINISTRY
  - CIVIL DEFENSE
  - FORESTRY DEPARTMENT
  - AAIIB
  - MOD
  - MTCW
  - MFA
  - DCA
  - HERMES AIRPORT
  - PORTS AUTHORITY
  - DMS
  - FISHERIES DPT

- ### MARITIME INCIDENT ON SHIPS OR PLATFORMS
- POLICE
  - FIRE SERVICE
  - NGHQ
  - MINISTRY OF HEALTH
  - CIVIL DEFENSE
  - FORESTRY DEPARTMENT
  - MAIC
  - MOD
  - MTCW
  - MFA
  - MECI
  - DCA
  - HERMES AIRPORT
  - PORTS AUTHORITY
  - DMS
  - FISHERIES DPT
  - OPERATOR
  - SOCIAL SERVICES

- ### JOINT REFUGEE RESCUE OPERATIONS
- POLICE
  - FIRE SERVICE
  - NGHQ
  - MINISTRY OF HEALTH
  - CIVIL DEFENSE
  - FORESTRY DEPARTMENT
  - MAIC
  - MOD
  - MTCW
  - MFA
  - MJPO
  - UNHCR
  - DCA
  - HERMES AIRPORT
  - PORTS AUTHORITY
  - FISHERIES DPT
  - OPERATOR
  - SOCIAL SERVICES



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## Action Plan- How do they Operate

A/A	Service	INTERESTED UNITS	RESPONSIBILITIES – ACTIONS
1.	POLICE	POLICE HQ	➤ Assign a liaison to the JRCC for participation in the CMCT.
		LOCAL POLICE	<ul style="list-style-type: none"> <li>➤ <a href="#">Deploy a Command Post on sight</a></li> <li>➤ Traffic Control</li> <li>➤ Determination of vehicle's parking area</li> <li>➤ Delimitation of Responsibility Zones</li> <li>➤ Organizing Stations</li> <li>➤ Assign Officer as OSC</li> <li>➤ Assign Security Officer to implement Security Plan.</li> <li>➤ Manage the fatalities</li> </ul>
		CPAU	<ul style="list-style-type: none"> <li>➤ Search - Rescue</li> <li>➤ Fire fighting</li> <li>➤ Assign liaison at Command Post</li> </ul>
2.	FIRE SERVICE	FIRE STATIONS	<ul style="list-style-type: none"> <li>➤ Assign officer in charge for RED ZONE</li> <li>➤ Search and Rescue</li> </ul>
		ERU	<ul style="list-style-type: none"> <li>➤ Fire fighting</li> <li>➤ Assign liaison at the Command Post</li> </ul>
3.	MINISTRY OF HEALTH	MEDICAL – NURSE SERVICES	➤ Assign liaison at the JRCC for participation in the CMCT.
		REGIONAL Hospital	<ul style="list-style-type: none"> <li>➤ Organize a pre-hospital care station and Deploy Triage Station</li> <li>➤ Organization of gathering station for the fatalities (cooperation with Police and Civil Defence)</li> <li>➤ Prepare to receive a large number of casualties</li> <li>➤ Assemble a psychological support team</li> <li>➤ Dispatch coroners</li> <li>➤ Assign liaison at the Command Post</li> </ul>
		AMBULANCE SERVICE	<ul style="list-style-type: none"> <li>➤ Dispatch Ambulances</li> <li>➤ Evacuation of injured</li> </ul>
		MEDEVAC Teams	➤ Participation in air evacuations



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## Action Plan- How do they Operate

A/A	Service	INTERESTED UNITS	RESPONSIBILITIES – ACTIONS
4.	NGHQ	460 SQR	<ul style="list-style-type: none"> <li>➤ Search - Rescue</li> <li>➤ Fire fighting</li> </ul>
		SOC	<ul style="list-style-type: none"> <li>➤ Search – Rescue</li> </ul>
		Medic Corp	<ul style="list-style-type: none"> <li>➤ Medical Support</li> </ul>
		NGHQ/OpCom	<ul style="list-style-type: none"> <li>➤ Assign liaison at the Command Post</li> <li>➤ Assign liaison at the JRCC for participation in the CMCT.</li> </ul>
5.	CIVIL DEFENSE	FIRST AID AND RESCUE	<ul style="list-style-type: none"> <li>➤ Assist services in the incident location</li> <li>➤ Organize of a survivor registration station</li> </ul>
		REGIONAL COMMAND	<ul style="list-style-type: none"> <li>➤ Activation of MEDEVAC, First Aid and Rescue Teams</li> <li>➤ Assign liaison at the Command Post</li> <li>➤ Assign liaison at the JRCC for participation in the CMCT.</li> <li>➤ Prepare to implement NSP "POLYVIOS"</li> </ul>
6.	FORESTRY DEPARTMENT	FLIGHT UNIT	<ul style="list-style-type: none"> <li>➤ Assign ACO</li> <li>➤ Search</li> <li>➤ Fire fighting</li> </ul>
		FORESTRY STATIONS	<ul style="list-style-type: none"> <li>➤ Fire fighting</li> <li>➤ Search</li> <li>➤ Route indication</li> </ul>
		ADMINISTRATION	<ul style="list-style-type: none"> <li>➤ Assign liaison at the Command Post</li> <li>➤ Assign liaison at the JRCC for participation in the CMCT.</li> </ul>



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## Action Plan- How do they Operate

A/A	Service	INTERESTED UNITS	RESPONSIBILITIES – ACTIONS
7.	AAIIB	-	➤ Consider the transfer of responsibility from the JRCC to the AAIIB
		-	➤ Assign liaison at the Command Station
		-	➤ Assign liaison at the JRCC for participation in the CMCT.
8.	MOD	-	➤ Convergence of CMC
		-	➤ Assign liaison to the JRCC for participation in the CMCT.
		-	➤ SME information in cooperation with CSEs
9.	MOT	-	➤ Accounting and Financial Support for Enterprises
		-	➤ Participation in the CMC
		-	➤ Assign liaison at the JRCC for participation in the CMCT.
10.	MFA	-	➤ Participation in the CMC
		-	➤ Assign liaison at the JRCC for participation in the CMCT.
		-	➤ Consular support
		-	➤ Communication with UNFICYP, if necessary.
11.	DCA	ATC	➤ Air traffic management
			➤ Suspend airport operation if necessary
		AMC OR NOTAM OFFICE	➤ Issue NOTAM upon request by JRCC
		-	➤ Assign liaison at the JRCC for participation in the CMCT.



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## Action Plan- How do they Operate

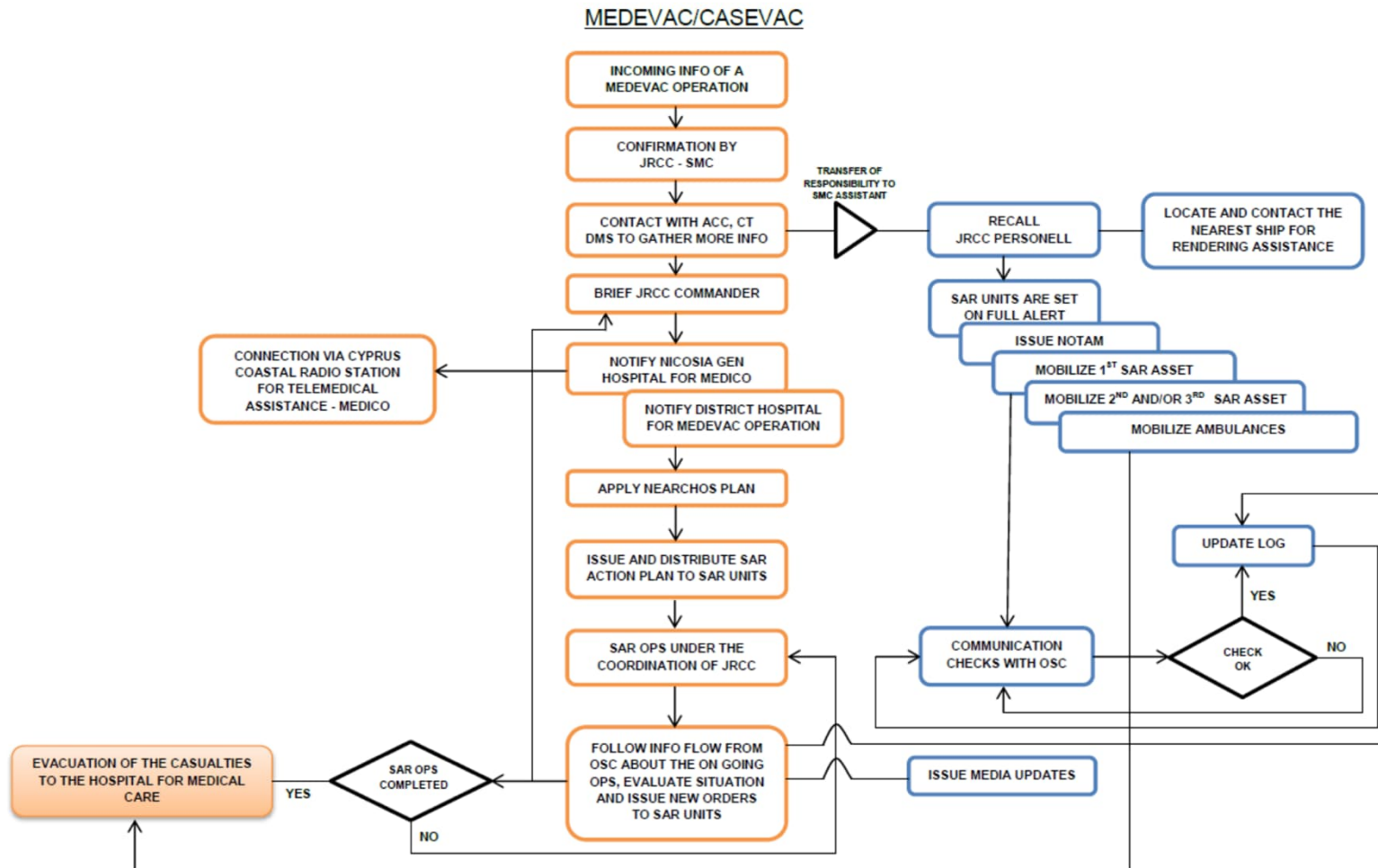
A/A	Service	INTERESTED UNITS	RESPONSIBILITIES – ACTIONS
12.	HERMES AIRPORTS	-	<ul style="list-style-type: none"><li>➤ Provide MRO equipment and personnel to support SAR operations</li><li>➤ Suspend airport operation if necessary</li><li>➤ Assign liaison at the JRCC for participation in the CMCT.</li><li>➤ Assign liaison to the Command Post in case the accident occurs less than 5NM from Larnaca and Paphos airports.</li></ul>
13.	AIRCRAFT OPERATOR	-	<ul style="list-style-type: none"><li>➤ Assign liaison at the JRCC for participation in the CMCT.</li><li>➤ Make a link available at the Command Post.</li></ul>
14.	SOCIAL SERVICES	-	<ul style="list-style-type: none"><li>➤ Provide psychological support.</li></ul>



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## Participating Units- Services per Case



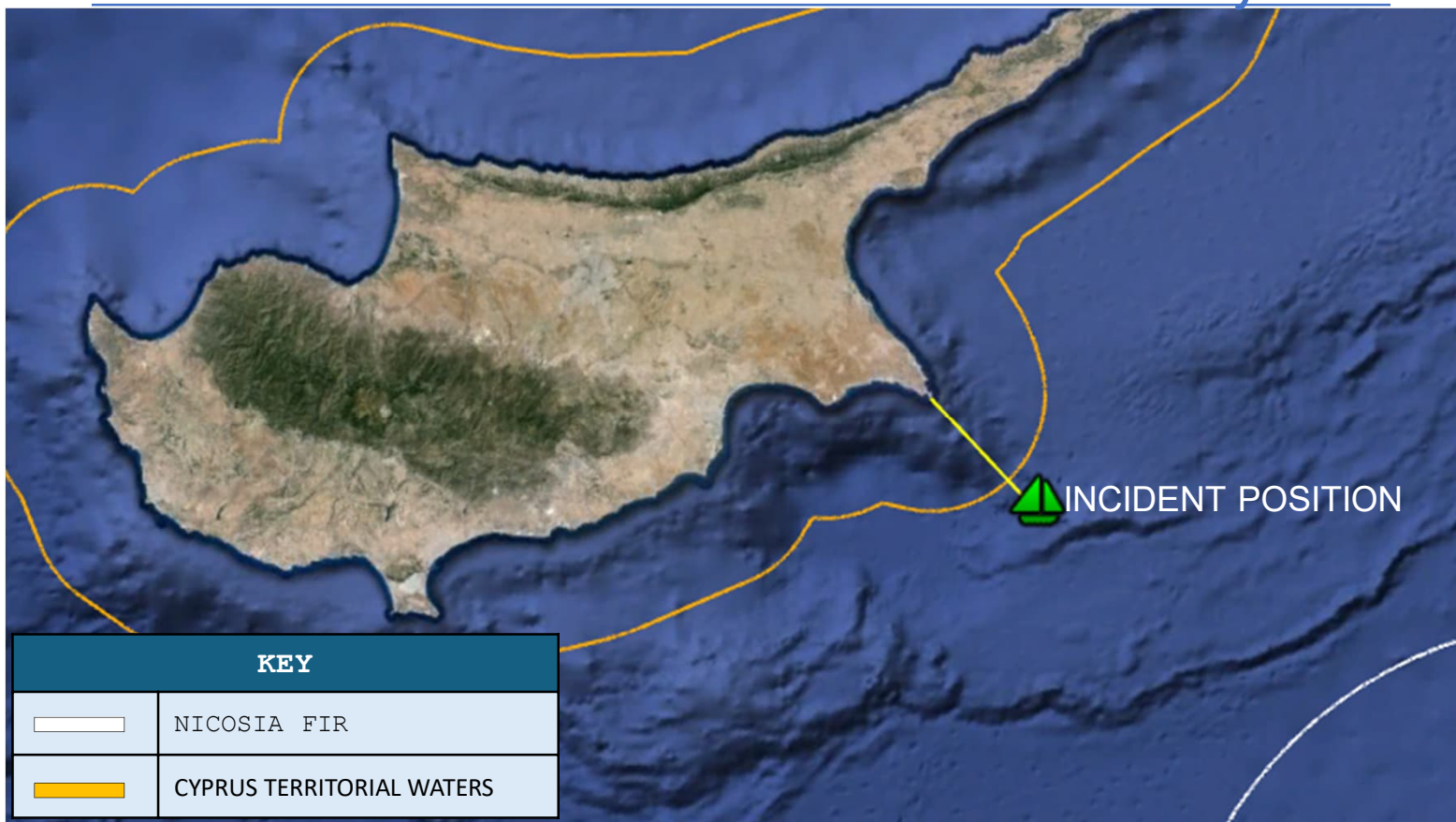


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Civil/Military cooperation in SAR

The JRCC Larnaca Example-Real Life Example

Real-life incident occurred on the 26th of February 2024

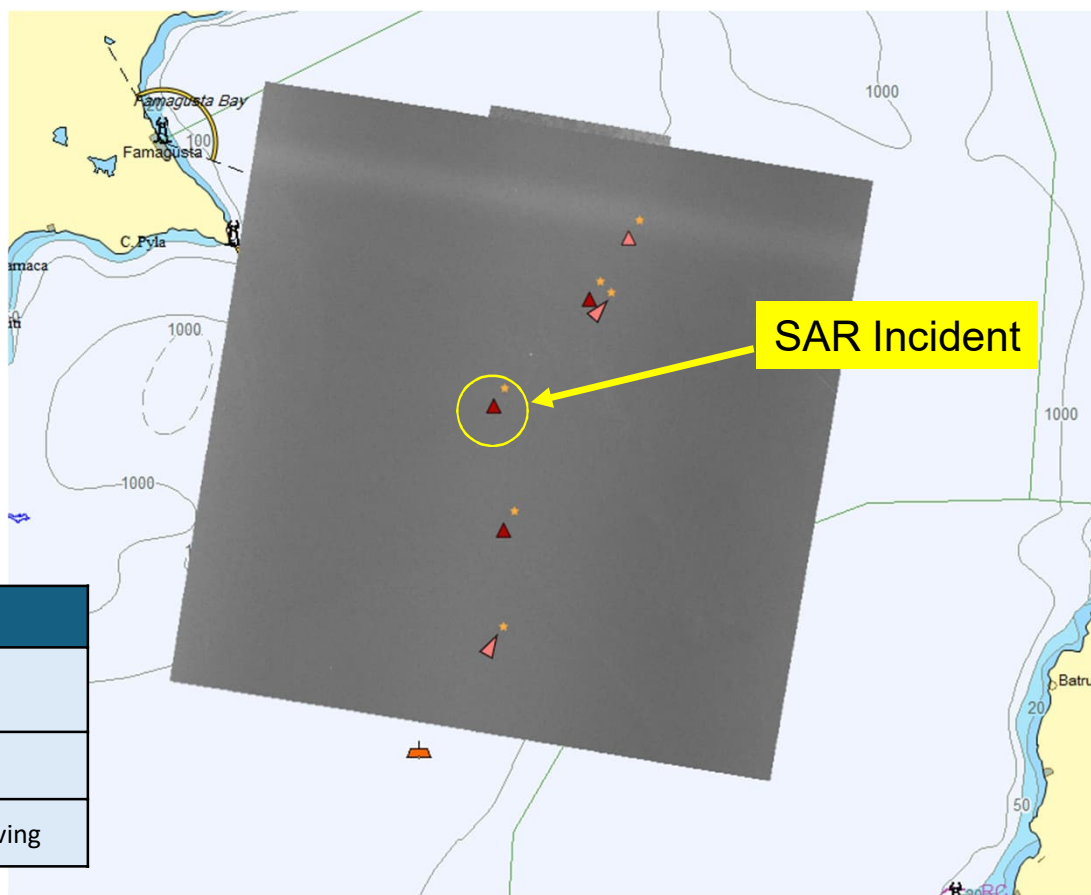




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## Civil/Military cooperation in SAR The JRCC Larnaca Example-Real Life Example



KEY	
	Correlated vessels (e.g. Cargo)
	Unknown/Non correlated
	Correlated vessels – not moving



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## Civil/Military cooperation in SAR The JRCC Larnaca Example Real Life Example

- JRCC Larnaca information received from relatives of persons onboard a vessel, concerning a migrant's boat in distress 40 nm Southeast of Cyprus.
- Maritime vessels from the Cyprus Marine Police, a helicopter from the Cyprus Police Aviation Unit, a helicopter, and a UAV from the Air Force Command, were deployed
- Duration of the operation: 5 days
- Results: 2 boats located, 54 migrants rescued, 3 persons still missing in the water
- Findings/remarks: **EMSA** and **Thuraya**, supported efficiently the SAR operation.



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## Civil/Military cooperation in SAR The JRCC Larnaca Example Real Life Example

Successful CIMIC (Civil-Military Cooperation) operation involves several key factors:

**Clear Objectives:** Defining specific, measurable, and achievable goals that align with both military objectives and the needs of the local civilian population is crucial.

**Effective Communication:** Establishing open lines of communication between military forces, local authorities, NGOs, and community leaders ensures that information flows smoothly and fosters cooperation.

**Building Trust and Relationships:** Developing strong relationships between military personnel and local communities can help in mitigating tensions and ensuring smoother operations.

**Comprehensive Assessment:** Conducting thorough assessments of the situation on the ground helps in identifying priorities and tailoring interventions effectively.



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## Civil/Military cooperation in SAR The JRCC Larnaca Example Real Life Example

Successful SAR Ops (Civil-Military Cooperation) operation involves several key factors:

**Collaborative Planning:** Involving local stakeholders in the planning and implementation of CIMIC activities enhances ownership and sustainability of efforts.

**Capacity Building:** Providing training and resources that help local communities build their own capacity contributes to long-term stability and resilience.

**Flexibility and Adaptability:** Being prepared to adapt to changing circumstances and emerging needs will increase the effectiveness of CIMIC operations.

**Monitoring and Evaluation:** Continuously assessing the impact of CIMIC activities allows for adjustments and helps in understanding best practices for future operations.

**Coordination with Humanitarian Efforts:** Collaborating with humanitarian organizations and other entities



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## Civil/Military cooperation in SAR The JRCC Larnaca Example Real Life Example

### Conclusions

1. SAR Services must be strengthened (CIMIC COOPERATION)
2. Political Will
3. Institutional Arrangements
4. Interaction
5. Set Objectives
6. Implement the necessary changes



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[JRCCLarnaca](#) [Useful Information](#) [Cyprus Maritime Station](#) [CYMCC](#) [ZENON](#) [SAR Units](#) [ICSS](#) [EU Programmes](#) [Latest News](#)



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[www.jrcc-cyprus.mod.gov.cy](http://www.jrcc-cyprus.mod.gov.cy)



+357 24 304 457



[info@jrcc.org.cy](mailto:info@jrcc.org.cy)



# ICAO EUR/APAC SAR Workshop

## Civil/Military cooperation in SAR examples

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3<sup>rd</sup> Oct 2024