ICAO SAR Regional Framework

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Outlines

• SAR Capabilities in the ICAO EUR Region;
• The lack of effective implementation (LEI);
• EURSAR Task Force, Mission accomplished!
  • ICAO EUR Regional SAR Plan (cooperation with MID and APAC Regions); and
• Establishment of the EURSAR Task Force… 2
Regional initiatives

In 2015, the ICAO Council emphasized the importance of SAR development work globally. Since then, the ICAO EUR/NAT Office, Paris, is working to improve the Search and Rescue activities in the EUR Region.
The EUR Region has a very complex airspace (56 States, the 3 Maghreb States), and some States have multiple Flight Information Regions (FIRs), Rescue Coordination Centres (RCCs) and Search and Rescue Regions (SRRs).
✓ ICAO SAR Provisions

USOAP audits focus on a State's capability in providing safety oversight by assessing whether the State has effectively and consistently implemented the critical elements (CEs) of a safety oversight system.
Search and Rescue capability in ICAO EUR Region... in 2015!

- The **lack of effective implementation (LEI)** score reflects the ratio (%) between the number of States where this PQ was not satisfactory and the total number of States where the PQ was applicable. The data is drawn from all the available CSA audits including ICVMS.

<table>
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<tr>
<th>Question</th>
<th>Area</th>
<th>PQ, LEI (%)</th>
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<tbody>
<tr>
<td>Does the State coordinate its SAR organization with those of neighboring States?</td>
<td>ANS</td>
<td>World 69.83</td>
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<tr>
<td>Does the State ensure that SAR personnel are regularly trained and that appropriate SAR exercises are arranged?</td>
<td></td>
<td>52.87</td>
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Source: ICAO SPACE iSTARS - Nov 2014
Search and Rescue capability in ICAO EUR Region

• Although EUR Region theoretically has SAR Agreements in place, most of these needed to be updated, particularly to include all SAR elements such as reference to assistance to other State SAR assets and SAR Exercises (SAREX).

Example of SAR LOA Matrix
(✓ = SAR Agreement notified, black cell = SAR Agreement not notified)
... and these were the fundamental reasons for a course of action to have a big picture of the SAR activities in the EUR Region.
Search and Rescue capability in ICAO EUR Region – EANPG Decision

• The EANPG established the EURSAR/TF to discuss, submit concepts and fill gaps in SAR capabilities in order to improve the overall capability of the SAR system throughout the EUR Region;

• During its life cycle, the EURSAR/TF considered ways to enhance and improve SAR capability in the Region; and

• Discussed and submitted concepts to future EANPG sessions on how gaps in the SAR Capability Matrix, for instance, might be addressed.

(1) The European Air Navigation Planning Group
EURSAR Task Force Outcomes:

- SAR arrangements & Capabilities
  - Table SAR – Agreements was updated;
  - Table SAR Capability Matrix.
- EUR SAR Plan (APPROVAL)
SAR Inter-Regional Cooperation

ICAO EUR Region SAR Plan

- ICAO Asia/Pacific Office is cooperating with SAR Task Forces in the EUR/NAT and MID Regions to support the EUR/NAT and MID Offices with clarification of relevant SAR issues with regard to the development/update of their regional SAR Plans.
SAR Inter-Regional Cooperation

- ICAO EUR Region SAR Plan
  - At the higher level are global requirements established by the ICAO Annex 12 to the ICAO Convention on International Civil Aviation (ICAO Doc 7300).
  - The Plan is a regional planning guidance associated with other regional guidance material, in order to enable States to define the goals and means of meeting objectives for State planning towards improving State SAR System capability.
Now, looking into the EUR SAR Plan...
**EUR SAR Plan – Performance Improvement Plan**

**Preferred SAR Capability Specifications (PSCS)**

PSCS are the non-mandatory expectations on all EUR Region States to enhance SAR systems in order to meet a minimum level of SAR capability, with a high degree of interoperability and harmonisation, and interoperability with other ATM components such as Air Navigation Service Providers (ANSPs) and aerodrome operators.

*EUR SAR Plan, Section 7 (Performance Improvement Plan), provides a scheme for the implementation of a collective set of enhancements for a number of elements in the PSCS.*
Preferred SAR Capability Specifications (PSCS)

PSCS are not expected to contravene existing Annex 12 standards.

The State’s level of PSCS implementation will be not verified during the USOAP-CMA.
One of the objectives of the EUR SAR Plan is to provide guidelines and recommendations for EUR States for the enhancement and improvement of national, sub-regional and regional SAR capabilities.

Based on the PSCS and in order to measure the SAR performance improvement, indicators based on the EUR Region can be used to assess whether an administration is either compliant or not and to internally evaluate their implementation status of the EUR SAR Plan.
Regional SAR Plan Monitoring

To this end, a bank of **41 SAR Performance Indicators** is proposed to assess the SAR performance improvement in the EUR Region.

Reviewed by:
ANSISG and IE-REST meetings,
Will be presented at COG/75 for approval
Taking into consideration this information, a Regional Performance Indicator Graphic will be generated.

Regional Performance Indicator Graphic [The values are purely illustratives]
The bank of **41 SAR Performance Indicators** is a live questionnaire that could be improved by the States if necessary.

Your contributions will be welcome!!!
SEARCH AND RESCUE CAPABILITY IMPROVEMENTS IN EUR REGION

**USOAP – CMA figures...**

Lack of effective implementation (LEI) and improvement objectives.
SEARCH AND RESCUE CAPABILITY IMPROVEMENTS IN EUR REGION

The audit outcomes of the State’s safety oversight capabilities (USOAP audits), calculated for each critical element related to Air Navigation System (ANS) and Search and Rescue (SAR), demonstrated an expressive number of lack of effective implementation (LEI) for certain Protocol Questions (PQ) regarding Search and Rescue (SAR) provisions.

To improve the EI of SAR provisions, it is presented two improvement objectives and, due to the complexity of the work, it is proposed the establishment of an EUR SAR Task Force (EURSAR/TF).
Improvement objective #1

The numbers showed that, being responsible for the safety oversight of ANS area, sometimes the CAAs do not develop all the necessary procedures and processes for its ANS inspectorate staff (i.e. SAR) to ensure an effective implementation of the safety oversight system.

COG/74&RCOG/11 Decision /1 – Develop a Standardized Training Program and a Specific Chapter for Inspector’s Handbook to cover Standardized Inspection Procedures for the Search and Rescue (SAR) Inspectorate Staff
Improvement objective #2

- EUR SAR Plan states that a Guidance Material for the implementation and monitoring of PSCS is expected to be developed as presented in the EUR SAR Plan, EUR Doc 039, Chapter 7. Performance Improvement Plan.

- Even if PSCS are the non-mandatory, it is expected that with its implementation, all EUR Region States could enhance their SAR systems in order to meet a minimum level of SAR capability.
Establishment of a new EUR SAR Task Force (COG/75)

- The ultimate goal of the SAR Plan is to make progress and to sustain the SAR activities in the EUR Region, improving the effective implementation (EI) for certain Protocol Questions (PQ) regarding Search and Rescue provisions.

- Taking into account the excellent results previously obtained by the EURSAR/TF and the complexity of these two improvement objectives, it is proposed the establishment of a new EUR SAR Task Force which should report to the EANPG COG.
Summing up…

The establishment of a new EUR SAR Task Force (at COG/75) aims:

- Develop a **Standardized Training Program** and a specific Chapter for inspector’s Handbook; and.
- Develop a **Guidance Material** for the implementation and monitoring of PSCS.