



International Civil Aviation Organization CAR/SAM Regional Planning and Implementation Group (GREPECAS)

INFORMATION PAPER

GREPECAS/22 — IP/09 13/09/24

Fourth GREPECAS-RASG-PA Joint Meeting and Twenty-second Meeting of the CAR/SAM Regional Planning and Implementation Group (GREPECAS/22)

Virtual Phase (Asynchronous, 16 September to 11 October 2024) In-Person Phase (Lima, Peru, 20 to 22 November 2024)

Agenda Item 5: CAR/SAM Air Navigation Services (ANS) Implementation

5.1 Air Traffic Management (ATM), Airspace optimization, Air Traffic Flow Management (AFTM) and Search and Rescue (SAR)

COSPAS-SARSAT DISTRESS ALERTS DATABASE - ECCAIRS

(Presented by The Civil Aviation Department Suriname)

EXECUTIVE SUMMARY		
This information paper is submitted to the GREPECAS for introducing the notification of COSPAS/SARSAT distress alerts database, based on ECCAIRS platform and implemented in Suriname in order to ensure and promote safety surveillance		
Strategic Objectives:	• Safety	
References:	 ECCAIRS Platform COSPAS-SARSAT distress alert 	

1. Introduction.

- 1.1 Following challenges experienced by the Search and Rescue department in handling COSPAS-SARSAT distress alerts, it has become apparent that retrieving the contact details of the aircraft in distress is not within reach, which should be investigated to notify to the safety authority.
- 1.2 Taking advantage that the ECCAIRS platform taxonomy offers the possibility to store COSPAS-SARSAT distress alerts in a standard format. Suriname have designed with the assistance of ICAO SAM, a specific view, shown in **Appendix A**, for storing the above-mentioned alerts notification.

2. Objective.

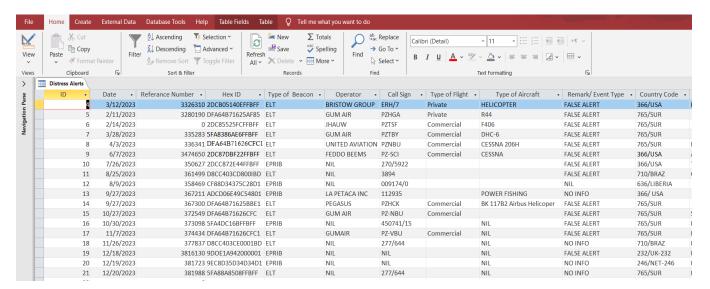
- 2.1 Introducing of COSPAS/SARSAT distress alerts notifications based on ECCAIRS view implemented in Suriname in order to keep a database for monitoring periodically the number of true and false events.
- 2.2 Ensuring the good coordination with the SPOC and the well performance of aircraft ELT (Emergency

Locator Transmitter).

2.3 Recommending corrective actions by the safety authority to the air operators according to the investigation of false alerts.

3. Description of the processing of "COSPAS-SARSAT distress alerts" before the implementation of ECCAIRS.

3.1 When receiving a COSPAS-SARSAT distress alert, the data was stored after verification if it was a true or false alert, in a Microsoft-Access database specially designed for storing COSPAS-SARSAT distress alerts. See next figure:



3.2 With this method, the safety authority had to be notified of a possible emergency by e-mail or telephone. This process cannot be monitored by the safety authority and only true alerts were reported, it is worth mentioning that most distress alerts are false. This meant that a large part of the reports went unnoticed by the safety authority. With the result that the correct data is not displayed during data analysis.

4. Description of the processing of "COSPAS-SARSAT distress alerts" using the ECCAIRS view.

- 4.1 The implementation of ECCAIRS in Suriname has had a lasting positive effect on the reporting process of distress alert to the safety authority.
- 4.2 Some benefits are the following: The reporting process in general is simplified using a standard format (ECCAIRS view, the report always accessible to the safety authority, the safety culture is promoted and the gap between service provider and safety authority is reduced.
- 4.3 An ECCAIRS centralized database, according to the notification process of Suriname is allowing above benefits.

5. Layout of the Distress COSPAS-SARSAT Position Update Alert View Based on ECCAIRS Platform

According to the **Appendix A**, the layout of this Distress COSPAS-SARSAT Position Update Alert view is made up of the logo of the organization at the top right, in the Centre is the name of the organization

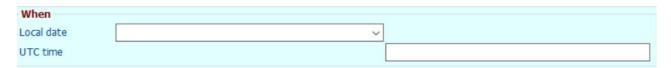
and next to it the flag of the country at the top left.

- 5.2 Below, there are the sections of the view called as follows: File, When, Where, Beacon Information, Aircraft and Additional Information.
- 5.3 File has as attributes: File number, Responsible entity, Aviation sector and other class.



The file number is allocated to the responsible authority in a standardized format agreed upon with the safety authority to identify each occurrence. The responsible entity is the organization that is responsible for the report, this attribute is automatically filled in . Other class: DALT-Distress alert, is also automatically filled in,

5.4 When has as attributes: Local date and UTC Time.



In this section the date is set and time of an occurrence, the time will be set in UTC time

5.5 Where has as attributes: Latitude of occurrence and Longitude of occurrence.



In this section the geographical location of the occurrence is set, based on the latitude and longitude.

5.6 Beacon information has as attributes: Reference number, HEX-ID, Type of Beacon and Event type.



The reference number is a number linked to a specific accident, based on the reference number there can be checked whether it concerns a new or the same case. In that context it was decided to use the reference number. The emergency notification also contains information about the beacon type, which could be an ETL or an Emergency Position-Indicating Radio Beacon (EPIRB). It is worth mentioning that Suriname stores ELTs, EPIRBs and Personal Locator Beacons (PLB)s in the ECCAIRS database. The attribute event type, gives the user the ability to specify three options, true, false and NIL

5.7 Aircraft has as attributes: State of registry, Operator, Operation type, Aircraft registration, Manufacturer/mod and Call sign.

Aircraft			
State of registry)	
Operator)	
Operation type)	
Aircraft registration			
Aircraft State of registry Operator Operation type Aircraft registration Manufacturer/mod		,	
Call sign			

- 5.8 The Distress COSPAS-SARSAT Position Update Alert view is not a standalone view, take note that it is linked to all other ECCAIRS views such as Initial Notification, Operational Preliminary and Operational Full, which are used to fill out the occurrence data according to the investigation management of a "true" distress alert.
- 5.9 In order to promote the sharing of information that is crucial to monitor the performance of SPOC and the coordination held during an event. One of the advantages of sharing this information is that in the event of a possible accident or emergency, the responsible authority can monitor the data at any time. It is of equal importance that owners and/or commercial operators of aircraft, when reselling their aircraft, report this to the responsible authority. By enforcing such measures, the quality of the data is guaranteed or kept up to date.

6. Suggested Action

The meeting is invited to:

- 6.1 Take note that the ECCAIRS platform provides a useful taxonomy and interface for storing COSPAS-SARSAT distress alerts in a standard format.
- 6.2 Take note that the follow-up of distress alerts will strength the implementation of SARPs (Standards and Recommended Practices) in the State.
- 6.3 Consider the benefits of the implementation of a COSPAS-SARSAT distress alerts database, based on the ECCAIRS platform.

APPENDIX A

Distress COSPAS-SARSAT Position Update Alert View Based on ECCAIRS Platform

