



**Thirty-Ninth Regional Aviation Safety Group — Pan America
Executive Steering Committee Meeting (ESC/39)**

Mexico City, 29 & 30 May 2024

Agenda Item 2: Safety management process within RASG-PA

RASG-PA Safety Day 2024 – Mid-air Collision Prevention
(Presented by the Secretariat)

EXECUTIVE SUMMARY	
This paper is to request approval from the ESC to conduct the RASG-PA Safety Day 2024.	
Action:	The Meeting is invited to: a) Take note on the information provided on this working paper; and b) Approve the proposed Decision as proposed in 2.6.
<i>Strategic Objectives:</i>	<ul style="list-style-type: none"> • Safety
<i>References:</i>	<ul style="list-style-type: none"> • ESC/38 Meeting Report; RASG-PA/13 Report

1. Background

1.1 The data analyzed by PA-RAST indicate that TCAS RA rates in the region are higher than the world average at all flight levels.

1.2 Given the projected increase in traffic in the region and the world for the coming years, it is essential that the RASG-PA develop measures to mitigate the operational safety risks related to Mid-air collisions, including the reduction of TCAS-RA rates.

1.3 To address this situation, PA-RAST has agreed to carry out RASG-PA Safety Day 2024, focused on collecting lessons learned and best practices for the prevention of mid-air collisions.

1.4 This activity will identify key factors related to TCAS-RA events, which will allow defining work priorities for the PA-RAST MAC working group for the coming years.

1.5 With the conclusions derived from the event, it is intended to develop a comprehensive and detailed work program and priorities for the PA-RAST on the subject, which will include multiple deliverables in the form of products for States and Industry, during the periods 2025 and 2026.

2. RASG-PA Safety Day 2024

2.1 The process to define PA-RAST priorities on MAC prevention is divided into two Phases. The First Phase consists of generating an exchange of experiences by key experts from different areas of the industry during the RASG-PA Safety Day 2024. The information obtained from this exchange will be used as the main input to establish priorities and develop the PA-RAST work program on MAC.

2.2 The event has been carefully planned to guarantee a multidisciplinary approach to the topic, and the presence of global leading experts to generate a valuable insight, which PA-RAST can then incorporate into its work plan. **Appendix A** contains the proposed agenda for the event.

2.3 RASG-PA funds are required to guarantee the presence of experts in Phase I during the RASG-PA Safety Day in Lima, so the team can collect all relevant information.

2.4 The event will also serve to increase awareness about the levels of TCAS RA in the region, both in the States, as well as in the airlines and air navigation providers.

2.5 In this sense, **Appendix B** consists of the RASG-PA funding request form to carry out the process described in 2.1.

2.6 It is therefore proposed that the meeting consider the approval of the following Decision:

DECISION		RASG-PA SAFETY DAY 2024	
RASG-PA ESC/39/XX			
<p>What:</p> <p>The holding of the RASG-PA Safety Day 2024 on the prevention of Mid-air collisions is approved according to the details of the Agenda in Appendix A of this Working Paper.</p> <p>The use of RASG-PA resources for this purpose is approved, according to the details in Appendix B of this Study Note.</p> <hr/> <p>How much:</p> <ul style="list-style-type: none"> Up to 40,000 USD 		<p>Expected impact:</p> <p><input type="checkbox"/> Political/Global</p> <p><input type="checkbox"/> Inter-regional</p> <p><input type="checkbox"/> Economic</p> <p><input type="checkbox"/> Environmental</p> <p><input checked="" type="checkbox"/> Operational/Tech.</p>	
<p>Why: The exchange of lessons learned and best practices to identify priorities for the work program of the PA-RAST MAC team for 2025 and 2026.</p>			
<p>When: Immediate</p>		<p>Status: Valid</p>	
<p>Who: <input checked="" type="checkbox"/> PA-RAST <input checked="" type="checkbox"/> Secretariat</p>			

3. Suggested actions

2.1 The Meeting is invited to:

- a) Take note on the information provided on this working paper, and
- b) Approve the proposed Decision detailed in 2.6.



RASG-PA Safety Day 2024 Mid-air Collision prevention

19 November 2024 – Lima, Peru

AGENDA

Time	Presentation	Organization
08:00 – 08:30	Registration	
08:30 – 08:45	Opening remarks	ICAO
08:45 – 09:15	Responses to TCAS-RAs observed in data and its consequences	Gerardo Hueto IATA
09:15 – 09:45	Human factors issues of ACAS/TCAS	TBD Boeing
09:45 – 10:15	ACAS/TCAS event case study	TBD Airline XX
Coffee Break		
10:45 – 11:15	AP/FD TCAS mode	TBD Airbus
11:15 – 11:45	The future of ACAS: ACAS-X	TBD FAA
11:45 – 12:15	ATC perspective on ACAS/TCAS events	FAA CANSO
Lunch Break		
13:30 – 14:00	Terminal maneuvering area redesign	TBD DECEA
14:00 – 14:30	Benefits of sharing aggregate data and role of CSTs	TBD B-CAST
14:30 – 15:00	Panel Discussion	All presenters
15:00 – 15:15	Closing remarks	RASG-PA

RASG-PA Resources Request Form

The RASG-PA Resources Request Form is designed to provide the RASG-PA ESC members with the information necessary to better understand a project

1. Request date *

DD MM AAAA

15 / 05 / 2024

2. Name of requester *

PA-RAST

3. State or Organization of the requester *

PA-RAST

4. E-mail address of the requester *

jpuente@icao.int

5. RASG-PA ESC Champion of the project/activity *

ICAO - Javier Puente

6. List of RASG-PA members supporting the project *

PA-RAST members

7. Name of the project, activity or initiative *

RASG-PA Safety Day 2024 as part of the MAC prevention strategy

8. Description of the project, activity or initiative *

The RASG-PA Safety 2024 is an ESC approved 1-Day event, aimed at raising awareness of the risks associated with TCAS RAs and Mid-air collisions. The event will bring together experts from different areas of the industry to discuss lessons learned and best practices, which will help define the PA-RAST work plan on MAC for the 2025-2026 period

9. Identification of the problem to be solved *

Identify the key safety issues related to TCAS-RA, in order to define the priorities of the PA-RAST MAC working group. This activity is aimed at strengthening safety, by generating awareness about the risks related to TCAS-RA/MAC, and preventing accidents and serious incidents.

10. Project/activity objective *

Define the priorities of the PA-RAST Mid-air Collision working group based on data analysis and the exchange with leading industry experts' knowledge and opinions.

11. Expected benefits of the project/activity *

A better understanding of the safety issues related to TCAS-RAs, and the best practices available to mitigate the risks associated with this events.

12. What are the deliverables and the estimated date of completion *

A comprehensive and detailed work program and priorities for the PA-RAST MAC Working group, which includes multiple deliverables in the form of products for States and Industry, during the periods 2025 and 2026.

13. Does this activity already have ESC/RASG-PA approval? *

Yes

No

14. How would the initiative support the RASG-PA mission to reduce fatality risk in commercial aviation? *

Although no accidents and serious incidents related to MAC have occurred in the region in the last years, the data analyzed by PA-RAST indicate that TCAS RA rates in the region are higher than the world average at all flight levels.

15. Please check the HRC linked to the project/initiative *

Los of Control In-Flight (LOC-I)

Controlled Flight Into Terrain (CFIT)

Runway Excursion (RE)

Mid-Air Collision (MAC)

Other risk (Specify below)

16. If "Other risk" was selected above, please specify *

No

17. List the GASP target it affects: *

- 1.1 Maintain a decreasing trend of accident rate
- 2.1 All States to improve Effective Implementation
- 2.2 States to reach a positive Safety Margin
- 3.1 States to implement SSP foundation
- 3.2 States to implement effective SSP
- 4.1 States to look for support on their safety margins
- 4.2 States to provide safety information to RASG-PA
- 4.3 States with effective SSP to actively participate in RASG-PA
- 5.1 Service providers to use globally harmonized SPIs
- 5.2 Increase the number of SPs participating in industry programs
- 6.1 States to implement basic air navigation and airport infrastructure

18. Indicate the financial requirement amount for the project *

Up to 40,000 USD

19. Describe in detail how the requested funds will be used *

The activity is divided into two Phases. The First Phase consists of generating an exchange of experiences by key experts from different areas of the industry during the RASG-PA Safety Day. The information obtained from this exchange will be used as the main input to establish priorities and develop the PA-RAST work program on MAC. The funds will be used to guarantee the presence of experts in Phase I during the RASG-PA Safety Day 2024 in Lima.

20. Is additional funding available to support the project? (If so please describe) *

Venue will be provided by the host of the RASG-PA Plenary Meeting

21. Please rate your experience filling this form *

	1	2	3	4	5	
Very easy	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very difficult

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