



# ICAO

*International Civil Aviation Organization*

**Tenth Meeting of the Surveillance Implementation  
Coordination Group (SURICG/10)**

*Bangkok, Thailand, 21 - 23 April 2025*

## Agenda Item 8

Update on surveillance activities and explore potential cooperation opportunity  
b) Updates from ICAO Surveillance Panel, Standards Making Organization

### ICAO SURVEILLANCE PANEL ACTIVITIES

(Presented by ICAO Surveillance Panel ASWG Rapporteur)

#### SUMMARY

This paper describes recent and planned activities of the ICAO Surveillance Panel.

## 1. INTRODUCTION

1.1 The work programme and activities of the ICAO Surveillance Panel (SP) are relevant to the SURICG. Per its charter from the Air Navigation Commission (ANC), the SP consists of two Working Groups: the Aeronautical Surveillance Working Group (SP-ASWG) and the Airborne Surveillance Working Group (SP-AIRBWG).

1.2 Information and discussions from the most recent SP Working Group meetings may be useful for consideration by the SURICG.

## 2. DISCUSSION

2.1 In response to ICAO job card SP.008.03 “Ensure performance of surveillance systems”, task 5 “Develop measurable technical performance specifications for surveillance systems and update information on ADS-B versions 1 and 2 as well as WAM definitions included in Cir 326”, the SP created a Performance-Based Surveillance Sub-Group (PBSSG). The PBSSG is charged to develop new guidance material containing performance-based surveillance requirements, including updated materials which would replace ICAO Cir 326, which is now outdated. In November 2021, the PBSSG provided an initial draft RSUR Manual to the membership of the SP for comments and feedback. In September 2023, at the Fifth Meeting of the SP, a major revision of this draft Manual was provided to SP membership for review and comment.

2.2 The PBSSG continues to work to finalize the draft Manual. A discussion was held at the recent SP-ASWG held in Montreal from 17 – 21 March 2025 pertaining to the next steps for finalizing the RSUR manual. Along with the ICAO SP Secretary, the ASWG decided to initiate inter-panel coordination to obtain ICAO Panel feedback prior to official submittal for publication. The PBSSG will be holding a meeting from 28 – 30 April 2025 to disposition comments, and plan to submit the final version during the next SP-ASWG being held in Nairobi from 10 – 14 November 2025. Once approved, the document will be presented for final approval during the Sixth Meeting of the SP planned for March 2026.

2.3 Since the last SURICG meeting, each of the Surveillance Panel's Working Groups have held two meetings.

2.4 The Eighteenth Meeting of the Airborne Surveillance Working Group (AIRBWG) and the Twentieth Meeting of the Aeronautical Surveillance Working Group (ASWG) were held as consecutive hybrid meetings in Montreal at ICAO Headquarters. AIRBWG/18 was held from 18 to 20 September 2025; ASWG/20 was held from 23 to 27 September 2025. The meetings were attended by 37 participants (12 members, 22 advisors, and 3 participants from the ICAO Secretariat) from 11 ICAO States (4 from the APAC region) and four International Organizations (including ICAO).

2.5 The Nineteenth Meeting of the Airborne Surveillance Working Group (AIRBWG) and the Twenty-first Meeting of the Aeronautical Surveillance Working Group (ASWG) were held as consecutive meetings in Montreal at ICAO Headquarters. AIRBWG/19 was held from 12 to 14 March 2025; ASWG/21 was held from 17 to 21 March 2025. The meetings were attended by 37 participants (11 members, 21 advisors, and 2 participants from the ICAO Secretariat) from 12 ICAO States (6 from the APAC region) and four International Organizations (including ICAO).

2.6 An Inter-Panel Task Force (IPTF) meeting was held on 19 March 2025 between members of to review the SSFT responses to the CP PT-T comments to the LDACS Compatibility test plan. The group focused on the critical comments of concern, and it was determined that the group will await the results of the planned compatibility testing to better understand what, if any, modifications would be necessary.

2.7 AIRBWG/18 considered Change Proposal (CP) to the Manual on Airborne Collision Avoidance Systems (Doc 9863). The CP suggested to incorporate information and guidance to further clarify recent amendments to the manual. The Airborne Collision Subgroup was also tasked to further investigate ICAO documents referencing ACAS to ensure alignment with the introduction of the ACAS III provisions.

2.8 During the AIRBWG/18, a CP was also presented with proposed changes to Airborne Surveillance Applications (Doc 9994). The CP suggested further refinement to previously introduced revisions to the essential requirements of the PANS-ATM/PANS-OPS for Interval management procedures. The revision was focused on the IM phraseology currently being used in IM Operations. The group determined that informal coordination with the ATMOPS Panel, FLTOPS Panel, and ICAO Regional offices was warranted.

2.9 AIRBWG/18 discussed the on-going work pertaining to the draft LDACS Surveillance System Compatibility Test Plan. The paper outlined the work that had taken place to capture all necessary testing to ensure compatibility with surveillance systems. The meeting also discussed the previous joint SP and PT-T discussion on LDACS.

2.10 ASWG/20 discussed the draft change proposals related to:

[a] Moving flight test guidance from DOC 9924 to DOC8071. The objective of the paper is to transfer all relevant flight test guidance for ADS-B and Multilateration systems, along with local monitoring information from DOC 9924 to Volume III of DOC 8071. The meeting noted the first reading of the CP.

[b] Adoption of DOC 9924 Guidance Material and Annex 10 PfA when a radar Antenna is not turning. The meeting noted the first reading of the CP.

[c] Need for creating a CP for 2026 to include guidance material in a new appendix of DOC 9924 aligned with the introduction of the new interference tolerance criteria. The meeting determined that the information will be incorporated temporarily into existing Appendix M, but a new appendix will be created as part of Appendix M revision work currently underway. It was also noted that the information would

eventually be incorporated into the RTCA/EUROCAE Minimum Operating Performance Standards.

2.11 ASWG/20 considered and discussed several papers on compatibility testing with LDACS (L-band Digital Aeronautical Communications System). The meeting was informed on the status of the LDACS Compatibility Test Plan in development by the ICAO SSFT. Several questions were raised regarding the need to update SARPS requirements as well as whether existing test requirements were sufficient to confirm compatibility between LDACS and Surveillance Systems. In order to meet ICAO's desired timeline, the ASWG agreed to hold an ad-hoc meeting during the ICAO Technical Subgroup meeting to review and finalize the SP's Compatibility Test Plan.

2.12 In addition, ASWG/20 brought forward a proposal to request the transfer of UAT requirements responsibility from the Communications Panel to the Surveillance Panel. This would require the SP to take on work to transition the all UAT requirements from ICAO Annex 10 Volume III to ICAO Annex 10 Volume IV.

2.13 AIRBWG/19 considered the outcomes from the 14<sup>th</sup> Air Navigation Conference identifying which items fell under the purview of the working group. Additionally, a CP was presented adding information and guidance to the ACAS Manual in response to the SP/5 approved provisions for ACAS III.

2.14 The meeting discussed comments received through the informal inter-panel coordination on the introduction of Interval Management into DOC 9924. Several questions were identified about which States planned to implement Interval Management along with the proposed timelines. It was noted that there are States, beyond the United States, that have initiated work for further researching and implementation of ADS-B In. An action was taken to obtain more information on what activities are taking place associated with researching, implementation, and/or deployment of ADS-B In.

2.15 ASWG/21 reviewed the LDACS Compatibility Test Plan that was finalized during the ICAO Technical Subgroup in February 2025. The presentation of this paper was formally adopted as part of the meeting. Several Members noted concern with obtaining manufacturer equipment and resources necessary to perform the compatibility testing as desired by the Inter-Panel Task Force.

2.16 ASWG/21 discussed the draft change proposals related to:

[a] Moving flight test guidance from DOC 9924 to DOC8071. The objective of the paper is to transfer all relevant flight test guidance for ADS-B and Multilateration systems, along with local monitoring information from DOC 9924 to Volume III of DOC 8071. The meeting noted the second reading of the CP.

[b] Adoption of DOC 9924 Guidance Material and Annex 10 PfA when a radar Antenna is not turning. The meeting noted the second reading of the CP.

[c] First reading of new guidance material for DOC 9924 aligning the introduction of the new interference tolerance criteria. The meeting noted the first reading of the CP.

2.17 Significant discussion took place related to increase in recent GNSS interference cases. Several recommendations were presented and discussed mechanisms to help controllers and Air Navigation Service Providers identify when a GNSS RFI event was taking place. The meeting agreed on the importance of further researching ways in which these types of events can be identified in a timely manner. The ICAO Technical Subgroup was tasked with taking on such discussions and determining potential mitigations.

2.18 Additionally, it is important to note that ICAO published the State Letter AN7/65.1.2-24/94 on 26 November 2024. The State Letter is related to the introduction of the new ICAO Annex 10

Volume III and IV SARPS that include the updates for transponder functionality and ADS-B Version 3. The new effectivity date for these SARPS will be 26 November 2026.

2.19 The SP Working Groups discussed and agreed with the future meeting schedule listed in the table below, which includes the timeline for the next Panel meeting, SP/6, to be held in March 2026.

| MEETING                                                           | DATE                                     | VENUE                | REMARKS |
|-------------------------------------------------------------------|------------------------------------------|----------------------|---------|
| 4 <sup>th</sup> QTR 2025 (Working Group Meetings)                 |                                          |                      |         |
| AIRB WG/20                                                        | 10 - 14 November 2025                    | Nairobi, Kenya       |         |
| ASWG/22                                                           | 17 - 21 November 2025                    |                      |         |
| 1st QTR 2026 (The Sixth meeting of the Surveillance Panel (SP/6)) |                                          |                      |         |
| SP/6                                                              | 4 -13 March 2026 (9am-5pm Montreal time) | ICAO Montreal Canada |         |
| Members only Meeting                                              | 4th March 2026                           |                      |         |
| First Plenary                                                     | 4 March 2026 Opening Session with ANC    |                      |         |
| AIRBWG/21                                                         | 4-6 March 2026                           |                      |         |
| ASWG/23                                                           | 9-13 March 2026                          |                      |         |
| 3rd QTR 2026 (Working Group Meetings)                             |                                          |                      |         |
| AIRBWG/22                                                         | 16-18 September 2026                     | ICAO Montreal Canada |         |
| ASWG/24                                                           | 21-25 September 2026                     |                      |         |

### 3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) discuss any relevant matter as appropriate

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