



ICAO

*International Civil Aviation Organization*

**ELEVENTH MEETING OF THE SURVEILLANCE  
IMPLEMENTATION COORDINATION GROUP  
(SURICG/11)**

*Bangkok, Thailand, 25 – 27 March 2026*

Agenda Item 3: Review of outcomes of relevant meetings

**REVIEW OF OUTCOMES OF RELEVANT MEETINGS**

(Presented by the Secretariat)

**SUMMARY**

The paper presents the relevant outcomes of the meetings held in the year 2025 including the Thirty-Sixth Meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/36), the Twenty Ninth Meeting of Communication, Navigation, and Surveillance Sub Group (CNS SG/29), and relevant discussions in other meetings.

**1. INTRODUCTION**

1.1 The Thirty-Sixth Meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/36) was held at the ICAO APAC Regional Office, Bangkok, Thailand, from 24 to 26 November 2025. The Meeting was attended by **188** participants from **26** Member States, **2** Special Administrative Regions of China, and **6** International Organizations. The APANPIRG/36 meeting report, working papers, information papers, and other resources can be accessed on the [APANPIRG/36 Meeting webpage](#).

1.2 The Twenty-Ninth Meeting of the Communications, Navigation and Surveillance Sub-group (CNS SG/29) of APAC Air Navigation Planning and Implementation Regional Group (APANPIRG) was held at the ICAO APAC Regional Office, Bangkok, Thailand, from 16 to 20 June 2025. The Meeting was attended by **100** participants from **23** States/Administrations, **2** International Organizations, and **3** industry partners. The Meeting report and other documents of the meeting can be accessed on the [CNS SG/29 Meeting webpage](#).

1.3 The APANPIRG/36 Meeting reviewed the outcomes of CNS SG/29, noted with appreciation the following work done and achievements by the CNS SG and the contributory bodies reporting to APANPIRG through the CNS SG. APANPIRG/36 also discussed CNS-related matters and acted on the Report of the CNS SG/29 meeting and other papers presented under Agenda Item 3.4.

1.4 This paper summarized relevant information and updates with a highlight of the reviewed outcomes of relevant discussions of other meetings of CNS SG/29 and APANPIRG/36.

**2. DISCUSSION**

The actions taken by APANPIRG/36 & CNS SG/29 meetings on Aeronautical Spectrum and Frequencies related matters are highlighted below:

2.1 The CNS SG/29 meeting adopted the following 5 Conclusions and 6 Decisions:

Reference	Subject
<b>Conclusion CNS SG/29/02</b> ( <i>Conclusion ACSICG/12/03 (CRV OG/13/07)</i> )	- Adopt the CANSO Standard of Excellence in Cyber Security for CRV
<b>Decision CNS SG/29/03</b> ( <i>Decision ACSICG/12/04</i> )	- Adoption of SOP to update the AMC AFTN/AMHS Routing Table in the Asia/Pacific Region
<b>Conclusion CNS SG/29/04</b> ( <i>Conclusion ACSICG/12/05</i> )	- Educational material to manage the distribution of IWXXM information for COMM experts in the event of primary link failure
<b>Conclusion CNS SG/29/05</b> ( <i>Conclusion ACSICG/12/06</i> )	- Checklist of steps required for operational IWXXM exchange
<b>Decision CNS SG/29/08</b> ( <i>GBAS-SBAS ITF 07/01</i> )	- Guidance Document for Implementation of SBAS in the Asia/Pacific Region
<b>Conclusion CNS SG/29/09</b> ( <i>SURICG/10/02</i> )	- Workflow for the request and coordination of IC codes with the ICAO APAC Office
<b>Decision CNS SG/29/10</b> ( <i>ATMAS TF/06/01</i> )	- Adoption of the Air Traffic Management Automation System Implementation and Operations Guidance Document Edition 1.5
<b>Decision CNS SG/29/11</b> ( <i>ATMAS TF/06/02</i> )	- Adoption of the AIDC Implementation and Operations Guidance Document (IGD) Edition 2.0
<b>Conclusion CNS SG/29/12</b> ( <i>ACSICG/12/01(CRV OG/13/04), ACSICG/12/08, SURICG/10/01, SRWG/09/01</i> )	- Update the CNS Tables of ICAO APAC e-ANP Vol II
<b>Decision CNS SG/29/13</b>	- Adoption of Regional Guidance Material for Addressing Human Factor Issues of ATSEP v2.0
<b>Decision CNS SG/29/14</b>	- Creation of ANS Information Assurance Task Force (ANSIA TF)

2.2 The contents of above Conclusions/Decisions adopted by the CNS SG/29 are provided in **Attachment A** to this paper.

2.3 Based on the outcome of discussions on various agenda items, the CNS SG/29 meeting developed 3 Draft Conclusions and 1 Draft Decision for consideration by APANPIRG/36 Meeting, which were further adopted by APANPIRG/36. The Conclusions/Decisions adopted by APANPIRG/36 are as follows:

Reference	Subject
<b>Conclusion APANPIRG/36/10</b> ( <i>CNS SG/29/01</i> ( <i>ACSICG/12/02</i> )	- Implementation of CRV for small Pacific Islands and small ANSPs in the region using CRV Solution, CRV SLA Package D+

(CRV OG/13/06))

- Decision APANPIRG/36/11** - Adoption of APAC Common SWIM Information Services, v1.0  
(CNS SG/29/06  
(SWIM TF/10/02))
- Conclusion APANPIRG/36/12** - Asia/Pacific Regional FIXM version 4.3 Extension  
(CNS SG/29/07  
(SWIM TF/10/03))
- Conclusion APANPIRG/36/13** - Decision on CRV II contract Management Process  
(CNS SG/29/15  
(ACSICG/12/09  
(CRV OG/14/01)))

2.4 All APANPIRG/36 Conclusions related to CNS are provided in **Attachment B** to this paper.

2.5 The following captures the highlights of previous discussions relevant to this Meeting.

### **Surveillance**

#### Outcomes of the SURICG/10 Meeting

2.6 SURICG Co-Chair shared information about a recent event, the [ICAO APAC Radio Navigation Symposium](#), which was held in New Delhi, India, from 07-09 April 2025. He informed that the theme of the Symposium was **GNSS RFI: Collectively Bridging Gaps and Shaping the Path Forward** and that the symposium aimed to provide a collaborative platform to exchange experiences and insights on GNSS RFI, analyze its impact and challenges and facilitate in-depth discussion on mitigation measures and future development to build a resilient aviation system. It was added that Singapore presented *ADS-B spoofing and mitigating measures* in the symposium, and the symposium developed recommended actions to guide future efforts in managing GNSS RFI.

2.7 The key outcomes of the [ICAO APAC ADS-B Implementation Workshop](#) were presented, which was held from 14 to 16 August 2024 in Bangkok, Thailand. The SURICG/10 Meeting shared its appreciation to the ICAO APAC Office, New Zealand and Singapore for organizing and supporting the Workshop and recommended organizing more events in the future.

2.8 The SURICG/10 Meeting reviewed the proposed initial set of APAC Common SWIM Surveillance Information Services → **Surveillance data sharing services**. With assistance from Hong Kong China, the list was modified and further consulted with SURSG/4 delegates by email. After incorporating all inputs, the **final list of APAC Common SWIM Surveillance Information Services** was prepared by the SURICG/10 meeting.

2.9 Hong Kong China shared the progress of the work of SURSG after 2024. It was informed that SURSG has started to prepare the last deliverable of the Study Group (i.e., guidance material), based on the proposed framework. The complete draft is planned to be ready by mid-2025 to seek further comments from SURSG members. The finalized version is targeted for endorsement by SURICG/11 in 2026. During the discussion of the next meeting date of SURSG, it was stated that the next Meeting will be planned before the SURICG/11 Meeting in 2026.

2.10 The SURICG/10 Meeting reviewed the reports on the Sub-regional ADS-B implementation plan/projects presented by BOB and SEA Ad-Hoc working groups, as well as the updated table on ADS-B Data Sharing Implementation Status.

2.11 Hong Kong China presented the critical role of the ADS-B Central Data Processor System (CPS) in enhancing air traffic surveillance. Hong Kong China highlighted that the implementation of an ADS-B CPS could be effective in addressing the issues of falsified target displays caused by GNSS spoofing and encouraged States to consider its implementation based on their needs.

2.12 The SURICG/10 Meeting noted that a Performance-Based Surveillance Sub-Group (PBSSG) is discussing using a cooperating surveillance system for separation, not for non-cooperative systems. The future versions of the RSUR manual could be modified to add guidance for this. USA will provide outcomes of the discussion in future SURICG meetings.

2.13 The SURICG/10 Meeting noted the work that was being undertaken by the Surveillance Panel, a significant discussion was held about an increase in recent GNSS interference cases. Several recommendations were presented and discussed, including mechanisms to help controllers and Air Navigation Service Providers identify when a GNSS RFI event was taking place. It was shared 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, which include the updates for transponder functionality and ADS-B Version 3. The new effective date for these SARPs will be 26 November 2026.

2.14 Singapore proposed the process for States to request and coordinate interrogator codes (IC) for mode S interrogators in SURICG/10, the CNS SG/29 Meeting reviewed the process and endorsed the **Conclusion CNS SG/29/09 (SURICG/10/02)** - Workflow for the request and coordination of IC codes with the ICAO APAC Office.

2.15 The CNS SG/29 Meeting noted the **Decision SURICG/10/03 – Adoption of Mode S DAPs Implementation and Operation Guidance Document Edition 6.0** was adopted by the SURICG/10 meeting. [Mode S DAPs Implementation and Operation Guidance Document Edition 6.0](#) were modified to add the general strategy on the assignment of migration to SI code and some information about the management of the 1030/1090 MHz utilization to update the general strategy on the assignment of and migration to the SI code was adopted during the 35th APANPIRG meeting.

2.16 The CNS SG/29 Meeting was informed about the latest work, enhancements, and functionalities brought to the SSR module of the Frequency Finder tool to assist ICAO Regional Offices and States in managing and coordinating SSR Mode S II/SI codes.

#### ADS-B Quality Performance Monitoring

2.17 Japan informed that with a plan to integrate ADS-B data to expand the area of higher accuracy and higher update rate, Japan has developed an ADS-B quality performance monitoring tool. This tool continuously acquires C/N0 data for each GPS satellite from the 80 GPS-based Control stations nearest to each airport, switching between them at regular intervals. If the C/N0 value falls below a set value, the tool will alert to the possibility of GNSS jamming. Currently, these tools have been evaluated for official operation. Japan proposed collaborations among APAC States to improve the ADS-B quality performance of aircraft and promote collaborations among APAC States to share information on methodologies for GNSS RFI monitoring.

2.18 The CNS SG/29 Meeting shared the significance of the information shared in the paper and suggested that Japan present this information in future SURICG Meetings.

ADS-B GNSS Performance Issues in Australia

2.19 Australia shared recent unique ADS-B problems experienced in Australia relating to the interaction between avionics and GNSS, affecting some aircraft, which resulted in ADS-B tracks being dropped from air traffic controller screens.

2.20 The Meeting deliberated on the deficiencies of ADS-B and suggested that such issues must be presented in the SURICG Meeting. It was informed that the ICAO APAC office manages the [ADS-B avionics problem reporting database](#). In addition, the Surveillance Panel (SP) maintains the [FAA No Services Aircraft List \(NSAL\)](#), which is the list indicating all aircraft that do not comply with minimum ADS-B requirements. The SURICG Co-Chair informed that SURICG is discussing the need to maintain the proposed databases, and the outcomes will be shared at the CNS SG meeting.

**Automation**

Outcome of ATMAS TF/6 Meeting

2.21 The CNS SG/29 Meeting agreed that the AIDC Implementation and RASMAG Hotspot Chart is useful for a quick overview of AIDC implementation and hotspots. It was noted that hotspots may not be solely caused by AIDC issues but by other contributing factors. Suggestions included updating the chart regularly or after RASMAG identifies new hotspot trends or ATMAS TF notes major updates. The ICAO Secretariat will coordinate internally and inform the ATMAS TF of any significant changes.

2.22 APANPIRG/36 noted the Decision CNS SG/29/10 - Adoption of the Air Traffic Management Automation System Implementation and Operations Guidance Document Edition 1.5, and the Decision CNS SG/29/11 - Adoption of the AIDC Implementation and Operations Guidance Document (IGD) Edition 2.0.

2.23 APANPIRG/36 noted that an ad-hoc group was formed to review and modify the ATMAS TF ToR to accommodate the latest needs of ATMAS TF, such as accommodating FF-ICE and SWIM requirements. The revised draft ToR will be presented by the ad-hoc group in the ATMAS TF/7 Meeting.

**Regional implementation review and updates**

Updates in e-ANP Vol II for CNS Tables

2.24 APANPIRG/36 noted the Conclusion CNS SG/29/12 - Update the CNS Tables of ICAO APAC e-ANP Vol II. The States/Administrations are requested to update the required information in ICAO APAC e-ANP Vol II.

**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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SURICG/11  
Attachment A to WP/02

List of Conclusion/Decisions adopted by CNS SG/29

<b>Conclusion CNS SG/29/02 (Draft Conclusion ACSICG/12/03 (CRV OG/13/07))- Adopt the CANSO Standard of Excellence in Cyber Security for CRV</b>	
<p>What: The CRV OG adopts the CANSO Standard of Excellence in Cyber Security for CRV and recommends that:</p> <ul style="list-style-type: none"> <li>a) CRV OG prefers an acceptable maturity level of Target Score ‘C.’ in carrying out the maturity assessment on the CRV.</li> <li>b) The CRV Service Provider carries out the maturity assessment.</li> <li>c) Each participating State/Administration carries out the maturity assessment.</li> <li>d) CRV OG/Each participating State/Administration creates a plan to address the gaps in the maturity score for the CRV.</li> </ul>	<p>Expected impact:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Political / Global</li> <li><input type="checkbox"/> Inter-regional</li> <li><input type="checkbox"/> Economic</li> <li><input type="checkbox"/> Environmental</li> <li><input checked="" type="checkbox"/> Ops/Technical</li> </ul>
<p>Why: To have a standard Cyber Security maturity applied to the CRV.</p>	<p>Follow-up: <input checked="" type="checkbox"/> Required from States</p>
<p>When: 20-Jun-25</p>	<p>Status: Adopted by Subgroup</p>
<p>Who: <input checked="" type="checkbox"/> Sub groups <input checked="" type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: CRV OG</p>	

<b>Decision CNS SG/29/03 (Draft Decision ACSICG/12/04) - Adoption of SOP to update the AMC AFTN/AMHS Routing Table in the Asia/Pacific Region</b>	
<p>What: <a href="#">The proposed Standard Operating Procedures (SOP)</a> for all ICAO Asia/Pacific (APAC) members who operate as CCC Operators (Coordination COM Centres) or External COM Centre Operators to update the AMC AFTN/AMHS Routing Table in the Asia/Pacific Region is adopted.</p>	<p>Expected impact:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Political / Global</li> <li><input type="checkbox"/> Inter-regional</li> <li><input type="checkbox"/> Economic</li> <li><input type="checkbox"/> Environmental</li> <li><input checked="" type="checkbox"/> Ops/Technical</li> </ul>
<p>Why: Enhance coordination between COM centers and ensure quality service for ATS Messaging.</p>	<p>Follow-up: <input checked="" type="checkbox"/> Required from States</p>
<p>When: 20-Jun-25</p>	<p>Status: Adopted by Subgroup</p>
<p>Who: <input checked="" type="checkbox"/> Sub groups <input checked="" type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Other: ACSICG</p>	

<b>Conclusion CNS SG/29/04 (Draft Conclusion ACSICG/12/05) - Educational material to manage the distribution of IWXXM information for COMM experts in the event of primary link failure</b>	
<p>What: <a href="#">The educational material to support COM/MET experts in managing the distribution of IWXXM in case of primary link failure</a> is adopted as a living document.</p>	<p>Expected impact:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Political / Global</li> <li><input type="checkbox"/> Inter-regional</li> <li><input type="checkbox"/> Economic</li> </ul>

SURICG/11  
Attachment A to WP/02

List of Conclusion/Decisions adopted by CNS SG/29

		<input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical
Why: Educational material that identifies the required link capabilities to maintain IWXXM message distribution in the event of a primary link failure is necessary for uninterrupted service.	Follow-up:	<input type="checkbox"/> Required from States
When: 20-Jun-25	Status:	Adopted by Subgroup
Who: <input checked="" type="checkbox"/> Sub groups <input checked="" type="checkbox"/> APAC States <input type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: ACSICG		

<b>Conclusion CNS SG/29/05 (Draft Conclusion ACSICG/12/06)</b> - Checklist of steps required to operational IWXXM exchange		
What: <a href="#">A checklist to facilitate the operational implementation of the IWXXM message exchange</a> is adopted as a living document.	Expected impact:	<input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical
Why: To support the prompt implementation of capable primary and, where relevant, secondary links for the exchange of IWXXM messages	Follow-up:	<input type="checkbox"/> Required from States
When: 20-Jun-25	Status:	Adopted by Subgroup
Who: <input checked="" type="checkbox"/> Sub groups <input checked="" type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Other: ACSICG		

<b>Decision CNS SG/29/08 (GBAS-SBAS ITF 07/01)</b> - Guidance Document for Implementation of SBAS in the Asia/Pacific Region		
What: <a href="#">The draft guidance document for implementation of SBAS in the Asia/Pacific Region</a> , developed by the APAC GBAS/SBAS ITF, is adopted.	Expected impact:	<input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical
Why: To provide guidance to States for the implementation of SBAS	Follow-up:	<input type="checkbox"/> Required from States
When: 20-Jun-25	Status:	Adopted by Subgroup
Who: <input checked="" type="checkbox"/> CNS Sub groups <input type="checkbox"/> APAC States <input type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other:		

SURICG/11  
Attachment A to WP/02

List of Conclusion/Decisions adopted by CNS SG/29

<b>Conclusion CNS SG/29/09 (SURICG/10/02)</b> - Workflow for the request and coordination of IC codes with the ICAO APAC Office	
What: Interrogator Codes (IC) of Mode S interrogators in the Asia Pacific region are to be coordinated and assigned through the ICAO APAC Regional Office. States/Administrations requiring ICs should request to the ICAO APAC Regional Office following the approved <a href="#">workflow</a> to facilitate the request.	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical
	Follow-up: <input type="checkbox"/> Required from States
When: 20-Jun-25	Status: Adopted by Subgroup
Who: <input checked="" type="checkbox"/> Sub groups <input checked="" type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: SURICG	

<b>Decision CNS SG/29/10 (ATMAS TF/06/01)</b> – Adoption of the Air Traffic Management Automation System Implementation and Operations Guidance Document Edition 1.5	
What: The Air Traffic Management Automation System Implementation and Operations Guidance Document, <a href="#">Edition 1.5</a> , is adopted.	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical
Why: New subsections have been added in the revised draft.	Follow-up: <input type="checkbox"/> Required from States
When: 20-Jun-25	Status: Adopted by Subgroup
Who: <input checked="" type="checkbox"/> Sub groups <input type="checkbox"/> APAC States <input type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Other: ATMAS TF	

<b>Decision CNS SG/29/11 (ATMAS TF/06/02)</b> – Adoption of the AIDC Implementation and Operations Guidance Document (IGD) Edition 2.0	
What: <a href="#">The AIDC Implementation and Operations Guidance Document (IGD) Edition 2.0</a> is adopted	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical
Why: New subsections have been added in the revised draft.	Follow-up: <input type="checkbox"/> Required from States
When: 20-Jun-25	Status: Adopted by Subgroup
Who: <input checked="" type="checkbox"/> Sub groups <input type="checkbox"/> APAC States <input type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Other: ATMAS TF	

SURICG/11  
Attachment A to WP/02

List of Conclusion/Decisions adopted by CNS SG/29

<b>Conclusion CNS SG/29/12 (ACSICG/12/01(CRV OG/13/04), ACSICG/12/08, SURICG/10/01, SRWG/09/01) - Update the CNS Tables of ICAO APAC e-ANP Vol II</b>	
<p>What: The following tables of ICAO APAC e-ANP Vol II are outdated and require immediate updates.</p> <p style="text-align: center;"><b><u>General Regional Requirements</u></b></p> <p><b>TABLE CNS II-1 AERONAUTICAL FIXED TELECOMMUNICATIONS NETWORK (AFTN) PLAN</b>  <b>TABLE CNS II-2 REQUIRED ATN INFRASTRUCTURE ROUTING PLAN</b>  <b>TABLE CNS II-3 ATS DIRECT SPEECH CIRCUITS PLAN</b>  <b>TABLE CNS II-4 HF NETWORK DESIGNATORS</b></p> <p style="text-align: center;"><b><u>Specific Regional Requirements</u></b></p> <p><b>TABLE CNS II-APAC-1 ATS INTER-FACILITY DATA COMMUNICATION (AIDC) IMPLEMENTATION PLAN</b>  <b>TABLE CNS II-APAC-2 RADIO NAVIGATION AIDS</b>  <b>TABLE CNS II-APAC-3 SURVEILLANCE</b></p>	<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"/> Ops/Technical</p>
<p>Why: The current TABLEs related to CNS are outdated and require immediate updates in order to update e-ANP Vol II.</p>	<p>Follow-up: <input checked="" type="checkbox"/> Required from States</p>
<p>When: 20-Jun-25</p>	<p>Status: Adopted by Subgroup</p>
<p>Who: <input checked="" type="checkbox"/> Sub groups <input checked="" type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other:</p>	

<b>Decision CNS SG/29/13 - Adoption of Regional Guidance Material for Addressing Human Factor Issues of ATSEP v2.0</b>	
<p>What: a) <a href="#">ICAO APAC Guidance Material for Addressing Human Factor Issues of ATSEP v2.0</a> be adopted.</p>	<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"/> Ops/Technical</p>
<p>Why: The Guidance material for the improvement of the existing human resource management process towards ATSEP for addressing the factors adding stress and fatigue, improving their job performance and for achieving organizational resilience and cost benefits has been modified by adding a new chapter on “Supervisory and Managerial Role of ATSEP”.</p>	<p>Follow-up: <input checked="" type="checkbox"/> Required from States</p>

SURICG/11  
Attachment A to WP/02

List of Conclusion/Decisions adopted by CNS SG/29

When: 20 Jun 2025	Status: Adopted by Subgroup
Who: <input checked="" type="checkbox"/> Sub groups <input type="checkbox"/> APAC States <input type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: XXXX	

<b>Decision CNS SG/29/14 - Creation of ANS Information Assurance Task Force (ANSIA TF)</b>	
<b>What:</b> To ensure consistent implementation of the requirements of ANS information security in the APAC region in accordance with the various manuals and guidance documents published by the ICAO and other international organizations, especially Certificates and PKI, a contributory body is proposed to be created under the CNS Sub-group to manage this using personnel experienced in the management and provisioning of ANS cybersecurity.	<b>Expected impact:</b> <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical
<b>Why:</b> To provide consistent application of the requirements.	<b>Follow-up:</b> <input checked="" type="checkbox"/> Required from States
<b>When:</b> 20-Jun-25	<b>Status:</b> Adopted by Subgroup
<b>Who:</b> <input checked="" type="checkbox"/> Sub groups <input checked="" type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Other: ACSICG, CRV OG, SWIM TF	

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SURICG/11  
Attachment B to WP/02

A List of Conclusions adopted by APANPIRG/36 Meeting related to CNS

<b>Conclusion APANPIRG/36/10</b> ( <i>Conclusion CNS SG/29/01 (ACSICG/12/02 (CRV OG/13/06))</i> ) - Implementation of CRV for small Pacific Island and small ANSP in the region using CRV Solution, PCCWG SLA Package D+	
<p>What: That, the CRV OG agreed to the following to assist small Pacific Islands &amp; small ANSPs in APAC in the implementation of CRV:</p> <p>a) CRV SLA Package D+ is reliable and addresses lead time for acquiring spares and PCCWG to import licenses and clearance for customer sites</p> <p>b) Small Pacific Island and small ANSP in the region to consider using CRV SLA package D+ as the CRV solution to implement CRV for the exchange of voice &amp; AMHS services</p> <p>c) With a target date to implement CRV by 2025, it was recommended that the CRV OG work closely with the small Pacific Islands, small ANSP in the region and PCCWG on a cost-effective CRV solution to implement CRV.</p>	<p>Expected impact:</p> <p><input type="checkbox"/> Political / Global</p> <p><input type="checkbox"/> Inter-regional</p> <p><input checked="" type="checkbox"/> Economic</p> <p><input type="checkbox"/> Environmental</p> <p><input checked="" type="checkbox"/> Ops/Technical</p>
<p>Why: To facilitate the implementation of CRV for the small Pacific Island &amp; small ANSP in the region</p>	<p>Follow-up: <input checked="" type="checkbox"/> Required from States</p>
<p>When: 26-Nov-25</p>	<p>Status: Adopted by PIRG</p>
<p>Who: <input checked="" type="checkbox"/> Sub groups <input checked="" type="checkbox"/> APAC States <input type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: XXXX</p>	

<b>Decision APANPIRG/36/11</b> ( <i>Decision CNS SG/29/06 (SWIM TF/10/02)</i> )- Adoption of APAC Common SWIM Information Services, v1.0	
<p>What: The first version of <a href="#">APAC Common SWIM Information Services</a>, be adopted for immediate use by APAC States/Administrations. The set of APAC Common SWIM Information Services, and the associated performance of SWIM Technical Infrastructure underpinning these services, is not specified to support the provision of aircraft separation.</p>	<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"/> Ops/Technical</p>
<p>Why: To assist APAC States/Administrations in planning and implementing their SWIM information services.</p>	<p>Follow-up: <input type="checkbox"/> Required from States</p>
<p>When: 26-Nov-25</p>	<p>Status: Adopted by PIRG</p>
<p>Who: <input checked="" type="checkbox"/> Sub groups <input type="checkbox"/> APAC States <input type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: MET SG, ATM SG, AOP SG</p>	

<b>Conclusion APANPIRG/36/12</b> ( <i>Conclusion CNS SG/29/07 (SWIM/TF/10/03)</i> ) – Asia/Pacific Regional FIXM version 4.3 Extension	
<p>What: <a href="#">The FIXM version 4.3 Extension</a> described in <a href="#">SWIM/TF/10/WP30</a> be:</p> <p>a) adopted as the Asia/Pacific FIXM version 4.3 Extension;</p>	<p>Expected impact:</p> <p><input type="checkbox"/> Political / Global</p> <p><input checked="" type="checkbox"/> Inter-regional</p> <p><input type="checkbox"/> Economic</p>

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<p>b) uploaded to the ICAO Asia/Pacific Regional Office website for use by Asia/Pacific Administrations, to support cross-border ATFM operation, A-CDM, ATFM/A-CDM integration, and traffic synchronization; and</p> <p>c) presented to the FIXM CCB for review and publication on the FIXM official website.</p>	<p><input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical</p>
<p>Why: To provide the information exchange model necessary to support cross-border ATFM operation, A-CDM, ATFM/A-CDM integration, and traffic synchronization in the Asia/Pacific Region, in line with <i>Conclusion APANPIRG/35/4</i>.</p>	<p>Follow-up: <input type="checkbox"/> Required from States</p>
<p>When: 26-Nov-25</p>	<p>Status: Adopted by PIRG</p>
<p>Who: <input checked="" type="checkbox"/> Sub groups <input type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: SWIM TF</p>	

<p><b>Conclusion APANPIRG/36/13 (Conclusion CNS SG/29/15 (ACSICG/12/09 (CRV OG/14/01)))- Decision of CRV II Contract Management Process</b></p>	
<p>What: Following the procurement process formulated by CRV OG to choose one of the two options for APAC States/Administrations for the CRV II contract management process, i.e., <i>current CRV contract extension vs initiate the CRV II RFP process</i>:</p> <p>a) States/Administrations agree to extend the current CRV contract for <b>5 years</b>, which will be referred to as the <b>CRV II Network</b>. After extension, the CRV II contract date would be from 1 January 2029 with expiry on <b>31 December 2033</b></p> <p>b) The contract extension for the CRV network will include updated legal, commercial, financial and technical requirements of the current service provider and CRV network implementation.</p> <p>c) Considering internal procurement timelines of APAC States/Administrations, CRV OG should prepare baseline updates required for the CRV network <b>before 1 April 2027</b>;</p>	<p>Expected impact:</p> <p><input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical</p>
<p>Why: (1) The current CRV contract expires on 31 December 2028; (2) Some APAC States/Administrations, including PSIDS, are in the process of joining CRV, while some States have joined CRV within the last 1-2 years; (3) Transition to the new contract will take at least 1-2 years;</p>	<p>Follow-up: <input checked="" type="checkbox"/> Required from States</p>

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(4) The CRV II contract management process executed by CRV OG resulted in the extension of the CRV contract for 5 years.	
When: 26 Nov 2025	Status: Adopted by PIRG
Who: <input checked="" type="checkbox"/> Sub groups <input checked="" type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Other: CRV OG and ACSICG	

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