



ICAO

*International Civil Aviation Organization*SEVENTH MEETING OF THE ASIA/PACIFIC AIR  
TRAFFIC MANAGEMENT AUTOMATION SYSTEM  
TASK FORCE (ATMAS TF/7)*Bangkok, Thailand 2-4 June 2026*

Agenda Item 2: Review of Outcomes of Relevant Meetings

**REVIEW 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 Air Traffic Management Automation System related matters are highlighted below:

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

<b>Reference</b>	<b>Subject</b>
<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> (CNS SG/29/01 (ACSICG/12/02 (CRV OG/13/06)))	- Implementation of CRV for small Pacific Islands and small ANSPs in the region using CRV Solution, CRV SLA Package D+
<b>Decision APANPIRG/36/11</b> (CNS SG/29/06 (SWIM TF/10/02))	- Adoption of APAC Common SWIM Information Services, v1.0
<b>Conclusion APANPIRG/36/12</b> (CNS SG/29/07 (SWIM TF/10/03))	- Asia/Pacific Regional FIXM version 4.3 Extension
<b>Conclusion APANPIRG/36/13</b> (CNS SG/29/15 (ACSICG/12/09 (CRV OG/14/01)))	- Decision on CRV II contract Management Process

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 in APANPIRG/36 relevant to this Meeting.

Election for Co-Chairs

2.6 Mr. M H Hui, Assistant Director-General of Civil Aviation, Civil Aviation Department, Hong Kong China, was unanimously elected as a Co-Chair of CNS SG of the APANPIRG.

Outcomes of ACSICG/12

2.7 The CRV Workshop for PSIDS was held from 3-4 March 2025 and the Thirteenth Meeting of the Common aeRONautical Virtual Private Network Operations Group of APANPIRG (CRV OG/13) was held from 5 to 8 March 2025.

2.8 The AMC Workshop and the Twelfth Meeting of the Aeronautical Communication Services Implementation Coordination Group (ACSICG/12) were held at the ICAO APAC Regional Office, Bangkok, Thailand, from 25 to 28 March 2025.

2.9 The CNS SG/29 Meeting noted the **Conclusion CRV OG/13/01- Standard Operating Procedures (SOP) for Dispute Resolution on CRV Matters**. It was informed that SOP has been incorporated in CRV OG OM v1.4, adopted by CRV OG/13 by **Decision CRV OG/13/02 - Publish the updated APAC CRV Operations Manual**. The Meeting also noted the **Decision CRV OG/13/03 - Update to the CRV Implementation Plan v2.3**.

2.10 The ACSICG/12 Meeting reviewed and modified the proposed SOP that CNS SG/29 endorsed and adopted by the following decision:

**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**

*The proposed Standard Operating Procedures (SOP) 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.*

2.11 The ACSICG/12 Meeting adopted the draft educational material for COM Centre operators as a living document and endorsed the following draft conclusion for consideration by CNS SG/29, which was adopted by CNS SG/29:

**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  
*The educational material to support COM/MET experts in managing the distribution of IWXXM in case of primary link failure is adopted as a living document.*

2.12 The ACSICG/12 Meeting reviewed and modified the checklist to facilitate the operational implementation of IWXXM message exchange based on the comments received from the participants. The following Draft Conclusion was adopted by ACSICG/12 for CNS SG/29 consideration, which was adopted by CNS SG/29:

**Conclusion CNS SG/29/05 (Draft Conclusion ACSICG/12/06) -**  
Checklist of steps required to operational IWXXM exchange  
*A checklist to facilitate the operational implementation of the IWXXM message exchange is adopted as a living document.*

2.13 The ACSICG/12 Meeting reviewed and adopted the ATSCG ToR through **Decision ACSICG/12/07 - Terms of Reference for the AMHS to SWIM Transition Correspondence Group.**

#### Outcome of SWIM TF/10

2.14 The SWIM TF/10 Meeting reviewed SIPG's discussions on Internet connectivity options for the Asia/Pacific SWIM, which was in line with the SWIM TF's mandate to build SWIM over CRV and other IP-based networks, including the Internet. Three architecture options were considered: Option 1 was to have one or more Edge EMSs connected to the CRV as well as the Internet. The Edge EMS can then publish and consume services from both the Internet and CRV. Option 2 was to have the SWIM TI constructed over both the CRV and the Internet. Each Gateway EMS provider will need to span the Gateway EMS over both CRV and the Internet with an appropriate security mechanism to segregate between the two zones. Option 3 was to have the CRV service provider also provide the connectivity to the Internet. SWIM TF/10 agreed to further evaluate Options 1 and 2, with a preference for Option 1 as an early implementation path. SIPG was tasked with defining the functionalities and requirements for Edge and Gateway EMSs to guide States. Further discussion on Option 2's routing implications was also planned.

2.15 It was noted that SWIM TF/10 discussed and adopted the following **4 recommendations** on SWIM transition in the APAC region, which were raised by SIPG:

**Recommendation 1:** Reach out to relevant expert groups that govern the various data types being transmitted on AMHS for their SWIM migration strategy and proposed sunset date. (e.g., AAITF, FF-ICE ad-hoc group, MET/IE, ATFM ad-hoc group, etc.)

**Recommendation 2:** Work closely with the ACSICG AMHS and the SWIM Transition Group to map out a transition plan together. One topic of interest is the need for AMHS to SWIM conversion and how that should be managed.

**Recommendation 3:** Consider the possible use of any other data formats, in addition to AIXM, FIXM, and IWXXM, in the Asia-Pacific SWIM. This is to enable existing data to be quickly onboarded onto SWIM. The ATM Information Reference Model should be used to maintain semantic interoperability.

**Recommendation 4:** Inform the ATM Automation Systems Task Force (ATMAS TF) of the need for ATM automation systems to be SWIM compatible.

2.16 Due to the need for clear guidance to States/Administrations on the proposed first version of Common SWIM Information Services, and the Common SWIM Information Services would involve various domains, such as ATM, CNS and MET, etc., under the APANPIRG, the **Decision APANPIRG/36/11 (CNS SG/29/06 (SWIM TF/10/02))** – Adoption of APAC Common SWIM Information Services, v1.0 as endorsed by CNS SG/29 was adopted by the APANPIRG/36.

2.17 The SWIM TF/10 Meeting was presented with the update on FIXM version 4.3 Extension development, and the **Conclusion APANPIRG/36/12 (CNS SG/29/07 (SWIM/TF/10/03))** – Asia/Pacific Regional FIXM version 4.3 Extension was endorsed by the SWIM TF/10 Meeting and was adopted by APANPIRG/36 through CNS SG/29 endorsement.

#### Outcome of SURICG/10

2.18 The Tenth Meeting of the Surveillance Implementation Coordination Group (SURICG/10) was held in Bangkok, Thailand, from 21 to 23 April 2025.

2.19 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.

2.20 The 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.

2.21 The Meeting reviewed the process for States to request and coordinate interrogator codes (IC) for Mode S interrogators. The following Conclusion was adopted by the Meeting:

**Conclusion CNS SG/29/09 (SURICG/10/02)** - Workflow for the request and coordination of IC codes with the ICAO APAC Office *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 workflow to facilitate the request.*

2.22 The 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. [The Mode S DAPs Implementation and Operation Guidance Document Edition 6.0](#) was modified to add the general strategy for the assignment of and migration to the SI code.

2.23 The 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 GNSS Performance Issues in Australia**

2.24 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.

2.25 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 \(NASL\)](#), 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.

#### Outcome of ATMAS TF/6

2.26 The Meeting recalled that in the CNS SG/28 Meeting, ATMAS TF was invited to produce a pictorial map to show the latest update for the AIDC implementation against Hotspots in the Region in the next CNS SG/29 Meeting, referred to as ACTION ITEM 28-1. Singapore updated the AIDC Implementation chart as requested by CNS SG/28.

2.27 The Meeting agreed that the chart is useful for a quick overview of AIDC implementation and hotspots. The Meeting noted New Zealand offered to do internal coordination and collate the required information for the future to include the South Pacific States.

2.28 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.

2.29 The Meeting was updated on the progress of SWIM implementation in the Asia/Pacific region, led by the SWIM Task Force and SIPG. Key outcomes from recent meetings emphasized the need for close coordination to support the transition. APANPIRG/33/09 endorsed a SWIM implementation timeframe of 2024–2030 and its inclusion in the Seamless ANS Plan v4.0. SWIM will support both current and future operations, such as ATFM, FF-ICE, and TBO, making regional harmonization essential.

2.30 Given recent updates to ICAO Doc 4444 introducing FF-ICE and the recommendation to phase out FPL2012 by 2034, ATMAS TF was invited to assess its readiness to process new message formats (e.g., eFPL via SWIM) and integrate data models like FIXM, IWXXM, and AIXM. Transition efforts, including protocol and data format conversion, were discussed.

2.31 The Meeting noted the regional adoption of FIXM v4.3 for cross-border ATFM from Q3/2026, and that the FPL2012 sunset date is expected by 2032. Successful FIXM v4.1 trials via SWIM/CRV were conducted by China, Hong Kong China, Singapore, and Thailand. States were urged to ensure new ATMAS acquisitions support SWIM/FF-ICE and to share capability assessments at future meetings.

2.32 The Meeting was informed that following the Conclusion of ATMAS TF/05/01, Edition 1.4 of the ATMAS Implementation and Operations Guidance Document (IGD) was adopted by ATMAS TF/5. China informed that regarding the enhanced function of ATMAS and implementation

experience of the system, China cooperated with the Ad-hoc working group to develop the draft (Edition 1.5) of the ATMAS IGD. China circulated the revised draft (Edition 1.5) of the ATMAS IGD to Member States/Administrations for review and comments on 30 April 2025. Suggestions from Hong Kong, China, and New Zealand were received and adopted.

2.33 The ATMAS Implementation and Operations Guidance Document (Edition 1.5) was reviewed and endorsed by the ATMAS TF/6 Meeting, which was adopted by CNS SG/29 and noted by APANPIRG/36:

**Decision CNS SG/29/10 (ATMAS TF/06/01)** – Adoption of the Air Traffic Management Automation System Implementation and Operations Guidance Document Edition 1.5  
*The Air Traffic Management Automation System Implementation and Operations Guidance Document, Edition 1.5, is adopted.*

*Outcomes from AIDC Implementation and Operations Guidance Document (IGD) Ad-Hoc Review Group – Singapore (WP/08)*

2.34 The Meeting was presented with the results of the AIDC IGD Ad-Hoc Review Group reviewing core AIDC messages and addressing implementation challenges. The group proposed the removal of ABI from the recommended core messages and identified CDN and REJ messages as valuable additions to the recommended set. The proposed amendments to Chapter 4.4 of the AIDC IGD were presented. It was informed that these amendments were intended to streamline recommendations towards low-effort, high-value AIDC implementations. It was informed that the proposed addition of new CDN and REJ messages was adopted from the Pan Regional Interface Control Document for ATS Interfacility Data Communications (PAN AIDC ICD). It was advised that States should retain full discretion to implement and exchange AIDC messages beyond the recommended message set where operationally beneficial, provided such implementation adhered to the published Interface Control Document (ICD).

2.35 The CNS SG/29 Meeting reviewed and adopted the proposed amendments to the AIDC IGD.

**Decision CNS SG/29/11 (ATMAS TF/06/02)** – Adoption of the AIDC Implementation and Operations Guidance Document (IGD) Edition 2.0  
*The AIDC Implementation and Operations Guidance Document (IGD) Edition 2.0 is adopted.*

2.36 The Meeting noted the latest repository of AIDC Implementation Status in the APAC region and invited States/Administrations to review and continue to update the AIDC implementation status and Focal Point for AIDC Implementation if necessary.

2.37 ICAO Secretariat recalled the pending hotspot issue between Muscat and Mumbai and requested India to share further updates. India informed that the new ATMAS is under installation and is likely to be commissioned by December 2025. It was added that AIDC Trials between Mumbai and Muscat can only be commenced after the commissioning of the new ATMAS. India will update the status and present a WP/IP regarding the same in the next TF Meeting.

2.38 APANPIRG/36 noted that an ad-hoc group consisting of China, Hong Kong China, India, New Zealand, Singapore, Thailand, and the USA 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.

Cybersecurity of CNS/ATM systems

2.39 CRV OG and SWIM TF presented recommendations for the creation of a new APAC contributory body for the joint management and implementation of cybersecurity provisions. The recommendation resulted from detailed discussion and deliberation held in first Working Session of the SWIM Implementation Pioneer Ad-Hoc Group (SIPG WS/1) held from 14 to 17 January 2025, the Thirteenth Meetings of Common aeRonautical VPN Operations Group (CRV OG/13) held from 5-8 March 2025, the Twelfth Meeting of the Aeronautical Communication Services (ACS) Implementation Coordination Group (ACSICG/12) held from 25 to 28 March 2025, the Second Working Session of the SWIM Implementation Pioneer Ad-Hoc Group (SIPG WS/2) held from 26 to 30 May 2025, and the Tenth Meeting of the System Wide Information Management Task Force (SWIM TF/10) was held from 20 – 23 May 2025.

2.40 As PKI-based approaches impact all communications in aviation, it was critical to ensure seamless integration with SWIM-enabled systems, ATC networks, and airborne systems. The issuance and management of digital certificates for SWIM entities (ATM Service Providers, Airspace Users, Information Services, and relevant devices) were essential to securing SWIM-based operations. Additionally, the use of digital signatures for cross-border and multi-regional SWIM message exchanges strengthens data integrity and communication trust.

2.41 The Meeting noted it is necessary to establish a new working group or task force to explore the development of a regional federated PKI architecture that ensures secure interoperability across multiple states and regions. Additionally, a technical community was needed to support the implementation of Trust Framework Instances for various applications. Collaboration with the SWIM TF was also considered essential to support the implementation of a Trust Framework Instance for SWIM, enabling secure, interoperable, and resilient aviation information exchange and flight operations.

2.42 SWIM TF Co-Chair shared that APANPIRG/33 adopted its Conclusion APANPIRG/33/09 to set the Asia/Pacific SWIM implementation timeframe to be between 2024 and 2030, with 2030 being the target timeline for implementation completion and emphasized the need for the creation of the group. She highlighted that the self-signed certificate trial being taken by SWIM TF is only a temporary solution due to the absence of the appropriate digital certificate infrastructure in the APAC region. This underscored the need for this proposed group to begin its work.

2.43 Malaysia strongly supported the recommendations and added that achieving stringent performance standards necessitates some applications, such as SWIM, specialized expertise to develop and refine a common PKI standard tailored for SWIM. Malaysia recognized the critical need for a dedicated APAC contributory body, as proposed, to harmonize the implementation of cybersecurity provisions, including PKI and digital certificates, across the region. It was suggested that this body would ensure interoperability, security, and resilience in SWIM-based information exchanges, aligning with ICAO's cybersecurity frameworks, such as the Manual of the Public Key Infrastructure (PKI) Policy for Aeronautical Communications (Doc 10095) and the Aviation Common Certificate Policy (Doc 10169).

2.44 China, Fiji, Thailand, Singapore and the USA supported the proposal. Mr. Goodfellow informed that PKI is more than a set of technologies. He shared the need for discussion on many complex matters, such as who would issue certificates, how the certificates would be issued, and the assessment criteria under which they would be assessed to make sure that they follow the agreed procedures. It was advised that there are higher-level governance and procedural questions that need to be addressed, along with technical aspects.

2.45 The Meeting deliberated at length about the name of the proposed group. After deliberation, it was agreed to initially name the group “ANS Information Assurance Task Force (ANSIA TF).”

2.46 Australia, China, Japan, Malaysia, New Zealand, Singapore, Thailand and the USA volunteered to join the group. It was agreed that the ANSIA TF would prepare the draft Terms of Reference (ToR), its key deliverables, and plan in close coordination with CRV OG, ACSICG, SWIM TF, TFP Secretary and Information Management Panel Secretary. ACTION ITEM 29-14. It was also agreed that the first meeting would be conducted in Q1-2026. ACTION ITEM 29-15 Other Member States/Administrations who wish to join the Task Force could liaise with the ICAO Secretariat after the meeting.

2.47 With the abovementioned, the following Decision was adopted by the CNS SG/29 Meeting.

**Decision CNS SG/29/14 – Creation of ANS Information Assurance Task Force (ANSIA TF)**

*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.*

**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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ATMAS TF/7  
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>

ATMAS TF/7  
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:		

ATMAS TF/7  
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	

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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>

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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
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, CRV OG, SWIM TF	

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

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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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