

International Civil Aviation Organization



ICAO

**Twenty Eighth Meeting of the Communications/
Navigation and Surveillance Sub-group (CNS SG/28)
of APANPIRG**

Bangkok, Thailand, 1 July – 5 July 2024

Agenda Item 2: Review outcomes of 41st Session of ICAO Assembly, APANPIRG, APAC ANSP Committee, ATM Sub-group, MET Sub-group and other meetings relevant to CNS Sub-group

CNS SG/27 and APANPIRG/34 CONCLUSIONS/DECISIONS and ACTION ITEMS

(Presented by Secretariat)

SUMMARY

The paper presents the latest status and actions taken for various Conclusion/Decision adopted and recommended in the Twenty Seventh Meeting of the Communications, Navigation and Surveillance Sub-group (CNS SG/27) of APANPIRG, Conclusion/Decision adopted by the Thirty fourth Meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/34) related to CNS along with latest status and action taken on various ACTION ITEMS formulated by the CNS SG/27 meeting for information and necessary follow-ups actions.

1. INTRODUCTION

1.1 The Thirty-Fourth Meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/34) was held at the Hong Kong Civil Aviation Department (HKCAD) Headquarters Auditorium *from 11 to 13 December 2023*, which was graciously hosted by Hong Kong, China. The Meeting was attended by **146** participants from **26** Member States, **2** Special Administrative Regions of China, and **7** International Organizations. The APANPIRG/34 meeting report, working papers, information papers, and other resources can be accessed by following link:

<https://www.icao.int/APAC/Meetings/Pages/2023-APANPIRG-34.aspx>

1.2 The Twenty Seventh Meeting of the Communications, Navigation and Surveillance Sub-group (CNS SG/27) of Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG) was held at the ICAO APAC Regional Office, Bangkok, Thailand, *from 28 August to 1 September 2023*. The Meeting was attended by **108** participants (94 In Person + 14 virtual) from **24** States/Administrations, **3** International Organizations, and **2** industry partners. The Meeting report and other documents of the meeting can be accessed at ICAO APAC Meeting webpage at:

<https://www.icao.int/APAC/Meetings/Pages/2023-CNS-SG-27.aspx>

1.3 The APANPIRG/34 Meeting reviewed the outcomes of CNS SG/27, 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/34 also discussed CNS related matters and acted on the Report of the CNS SG/27 meeting and other papers presented under Agenda Item 3.4.

1.4 This paper summarized relevant information and updates from CNS SG/27 and APANPIRG/34.

2. DISCUSSION

The actions taken by APANPIRG/33 meeting on CNS related matters are highlighted below:

2.1 The meeting noted that the CNS SG/27 meeting adopted the following **8** Conclusions and **2** Decisions:

Reference	Subject
Conclusion CNS SG/27/01 (ACSICG/10/01)	- Adoption of the Asia/Pacific Regional ATN Documentation Tree
Conclusion CNS SG/27/02 (ACSICG/10/04)	- Telecommunication Infrastructure Table
Decision CNS SG/27/03 (ACSICG/10/06)	- Revised ToR of Aeronautical Communication Services Implementation Coordination Group (ACSICG)
Conclusion CNS SG/27/05 (SRWG/7/1)	- Asia Pacific Regional Aeronautical Radio Frequency Management Guidance Material Edition 1.0
Conclusion CNS SG/27/06	- Revised GBAS safety assessment guidance document related to anomalous ionospheric conditions
Conclusion CNS SG 27/07	- Revised SBAS safety assessment guidance document related to anomalous ionospheric conditions
Conclusion CNS SG/27/08	- Extension of the Asia/Pacific GBAS/SBAS Implementation Task Force to complete tasks as per ToRs of GBAS/SBAS ITF
Conclusion CNS SG/27/11 (SURICG/8/2 (Mode S and DAPs WG/6/2))	- Mode S DAPs IGD Edition 5.0
Decision CNS SG/27/12 (SURICG/8/4)	- Revised ToR of Surveillance Implementation Coordination Group (SURICG)
Conclusion CNS SG/27/13	- Regional Guidance Document for Addressing Human Factor Issues of ATSEP

2.2 **Appendix A** of this paper provides detailed information about the above Conclusions/Decisions adopted by the CNS SG/27.

2.3 Based on the outcome of discussions on various agenda items, the CNS SG/27 meeting developed **3** Draft Conclusions for consideration by APANPIRG/34 Meeting, which were further adopted by APANPIRG/34. The Conclusions/Decisions adopted by APANPIRG/34 are as follows:

Reference	Subject
Conclusion APANPIRG/34/9 (<i>CNS SG/27/04</i> (<i>SWIM/TF/07/04</i>))	- Asia/Pacific Regional FIXM version 4.2 Extension
Conclusion APANPIRG/34/10 (<i>CNS SG/27/09</i>)	- Revised Navigation Strategy- APAC
Conclusion APANPIRG/34/11 (<i>CNS SG/27/10 (SURICG/8/1</i> (<i>Mode S and DAPs WG/6/1</i>)))	- General Strategy on Assignment of and Migration to SI Code in the APAC Region

2.4 All APANPIRG/34 Conclusions related to CNS are provided in **Appendix B** to this paper.

2.5 APANPIRG/34 further noted that the CNS SG had identified several action items related to CNS. Member States were encouraged to follow up on CNS-related action items resulting from the relevant meetings.

2.6 The latest status of various conclusions/decisions and action items formulated by the CNS SG/27 meeting is provided in **Appendix C** and **Appendix D**, respectively, to this paper.

3. ACTION BY THE MEETING

3.1 The Meeting is invited to:

- a. note the latest status and action taken for various CNS SG/27 and APANPIRG/34 **Conclusions/Decisions** in **Appendix C** and take any necessary follow-up actions;
- b. note the latest status and action taken for CNS SG/27 action items provided in **Appendix D** and take any necessary follow-up actions; and
- c. discuss any relevant matters as appropriate.

CNS SG/28
Appendix A to WP/23

List of Conclusion/Decisions adopted by CNS SG/27

Conclusion CNS SG/27/01 (ACSICG/10/01) – Adoption of the Asia/Pacific Regional ATN Documentation Tree		
What: a. the ATN Technical Document be published in a loose-leaf form to include future amendments to the Document Tree; and b. The ATN Documentation Tree provided in Appendix A of the Report 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: The current ATN/AMHS Documentation Tree published on the ICAO APAC Website has not been updated for a few years. Therefore, it required updates. Additionally, some documents related to CRV are needed to be added, and others are required to be deleted from the Tree due to obsolete documentation.	Follow-up: <input checked="" type="checkbox"/> Required from States	
When: 01-Sep-23	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 checked="" type="checkbox"/> Other: CRV OG		

Conclusion CNS SG/27/02 (ACSIGG/10/04) - Telecommunication Infrastructure Table		
What: TRACKING TABLE To have a single tracking table with online update capability to support implementing future services managing bandwidth. This table will supersede telecommunication tables maintained by CRV OG and ACSICG.		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: Managing Telecommunication Infrastructure	Follow-up: <input checked="" type="checkbox"/> Required from States	
When: 01-Sep-23	Status: Adopted by Sub-group	
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: ACSICG		

Decision CNS SG/27/03 (ACSICG/10/06): Revised ToR of Aeronautical Communication Services Implementation Coordination Group (ACSICG)		
That, The Revised Terms of Reference of the Aeronautical Communication Services Implementation Coordination Group (ACSICG) provided in Appendix B to the Report 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	

CNS SG/28
Appendix A to WP/23

List of Conclusion/Decisions adopted by CNS SG/27

Why: The proposed ToR of the ACSICG includes the new direction given by APANPIRG in the fields of Aeronautical Communication Services.	Follow-up: <input type="checkbox"/> Required from States
When: 01-Sep-2023	Status: Adopted by Sub-Group
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"/> APANPIRG <input checked="" type="checkbox"/> Other: ACSICG	

Conclusion CNS SG/27/05 (SRWG/7/1) - Asia Pacific Regional Aeronautical Radio Frequency Management Guidance Material Edition 1.0	
What: Asia Pacific Regional Aeronautical Radio Frequency Management Guidance Material provided in Appendix D to the Report 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: Per discussion from SRWG/7 for the region to utilize the Guidance Material	Follow-up: <input type="checkbox"/> Required from States
When: 01-Sep-2023	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: SRWG	

Conclusion CNS SG/27/06 – Revised GBAS safety assessment guidance document related to anomalous ionospheric conditions	
What: That, the revised GBAS safety assessment guidance document related to anomalous ionospheric conditions (Edition 2.0) provided in Appendix E to the report 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: Major updates to reflect the development of GAST D SARPs and the progress of GBAS development and implementation in the region.	Follow-up: <input type="checkbox"/> Required from States
When: 1-Sep-23	Status: Adopted by Subgroup
Who: <input checked="" type="checkbox"/> CNS Sub group <input type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other:	

Conclusion CNS SG 27/07 – Revised SBAS safety assessment guidance document related to anomalous ionospheric conditions	
What: That, the revised SBAS safety assessment guidance document related to anomalous ionospheric conditions (Edition 2.0) provided in Appendix F to the report is adopted.	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional

CNS SG/28
Appendix A to WP/23

List of Conclusion/Decisions adopted by CNS SG/27

		<input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical
Why: Major updates to enrich the contents and reflect the progress of SBAS development and implementation in the Region and DFMC SBAS SARPs development.	Follow-up:	<input type="checkbox"/> Required from States
When: 1-Sep-23	Status:	Adopted by Subgroup
Who: <input checked="" type="checkbox"/> CNS Sub group <input type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other:		

Conclusion CNS SG/27/08 - Extension of the Asia/Pacific GBAS/SBAS Implementation Task Force to complete tasks as per ToRs of GBAS/SBAS ITF

<p>What: To extend the period of Asia/Pacific GBAS/SBAS Implementation Task Force for another 3 years (i.e., up to 2026) for completing the following remaining tasks with high priority in the Action List and considered essential for fulfilling the objectives stated in the Terms of Reference (ToRs) of the APAC GBAS/SBAS ITF:</p> <ul style="list-style-type: none">- GBAS and SBAS implementation guidance documents;- Workshop/Meeting for APAC airspace users and regulators; and- Discussion and deliberation on technical issues in relation to GBAS/SBAS Safety Assessment and Performance Demonstration.	<p>Expected impact:</p> <ul style="list-style-type: none"><input type="checkbox"/> Political / Global<input type="checkbox"/> Inter-regional<input type="checkbox"/> Economic<input type="checkbox"/> Environmental<input checked="" type="checkbox"/> Ops/Technical
<p>Why: To complete tasks, such as guidance reference for GBAS/SBAS Implementation, under the TORs of Asia/Pacific GBAS/SBAS Implementation Task Force</p>	<p>Follow-up: <input checked="" type="checkbox"/> Required from States</p>
<p>When: 1-Sep-23</p>	<p>Status: Adopted by CNS SG</p>
<p>Who: <input checked="" type="checkbox"/> CNS Sub group <input checked="" type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other:</p>	

Conclusion CNS SG/27/11 (*SURICG/8/2 (Mode S and DAPs WG/6/2)*): **Mode S DAPs IGD Edition 5.0**

What: The Mode S DAPs Implementation and Operation Guidance Document Edition 5.0 provided in Appendix I of the Report 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: Inclusion of new/supplementary content discussed in Mode S and DAPs WG/6.	Follow-up: <input type="checkbox"/> Required from States	
When: 1-Sep-23	Status: Adopted by Subgroup	

CNS SG/28
Appendix A to WP/23

List of Conclusion/Decisions adopted by CNS SG/27

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: -

Decision CNS SG/27/12 (SURICG/8/4): Revised ToR of Surveillance Implementation Coordination Group (SURICG)	
What: That, the Revised Terms of Reference of the Surveillance Implementation Coordination Group (SURICG) provided in Appendix J to this paper be 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: The ToR from dissolved Mode S and DAPs WG was reviewed and necessary updates were identified.	Follow-up: <input type="checkbox"/> Required from States
When: 1-Sep-2023	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"/> APANPIRG <input checked="" type="checkbox"/> Other: SURICG	

Conclusion CNS SG/27/13 - Regional Guidance Document for Addressing Human Factor Issues of ATSEP	
What: a) ICAO APAC Guidance Document for Addressing Human Factor Issues of ATSEP provided in Appendix M 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: The Guidance document is prepared for the improvisation of existing human resource management process towards ATSEP for addressing the factors adding stress and fatigue, improve their job performance and for achieving organizational resilience and cost benefits.	Follow-up: <input type="checkbox"/> Required from States
When: 1-Sep-23	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	

A List of Conclusions adopted by APANPIRG/34 Meeting related to CNS

Conclusion APANPIRG/34/9 (CNS SG/27/04 (SWIM/TF/07/04)) – Asia/Pacific Regional FIXM version 4.2 Extension	
<p>What: The FIXM version 4.2 Extension provided in Appendix A to Agenda Item 3.4 be:</p> <ul style="list-style-type: none"> a) adopted as the Asia/Pacific FIXM version 4.2 Extension; b) uploaded to the ICAO Asia/Pacific Regional Office website for immediate use by Asia/Pacific Administrations, where the capability to do so exists, for cross-border ATFM information exchange and to support ATFM/A-CDM integration; and c) presented to the FIXM CCB for review and publication on the FIXM official website. 	<p>Expected impact:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Political / Global <input checked="" type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical
<p>Why: To provide the information exchange model necessary to support cross-border ATFM and ATFM/A-CDM integration in the Asia/Pacific Region, in order to support the implementation of performance objectives of the Asia/Pacific Regional Framework for Collaborative ATFM</p>	<p>Follow-up: <input type="checkbox"/> Required from States</p>
<p>When: 13-Dec-23</p>	<p>Status: Adopted by PIRG</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: SWIM TF, ATFM SG</p>	

Conclusion APANPIRG/34/10 (CNS SG/27/09) - Revised Navigation Strategy - APAC	
<p>What: Draft Revised Navigation Strategy-APAC in view of the latest development in GNSS navigation provided in Appendix B to Agenda Item 3.4 be adopted.</p>	<p>Expected impact:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical
<p>Why: To update the revised Navigation Strategy-APAC</p>	<p>Follow-up: <input type="checkbox"/> Required from States</p>
<p>When: 13-Dec-23</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: -</p>	

<p>Conclusion APANPIRG/34/11 (CNS SG/27/10 (SURICG/8/1 (Mode S and DAPs WG/6/1))): General Strategy on Assignment of and Migration to SI Code in the APAC Region</p>

CNS SG/28
Attachment B to WP/23

A List of Conclusions adopted by APANPIRG/34 Meeting related to CNS

What: The General Strategy on Assignment of and Migration to SI Code in the APAC Region provided in Appendix C to Agenda Item 3.4 be adopted.		Expected impact: <input type="checkbox"/> Political / Global <input checked="" type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical
Why: To synchronize the APAC region on the general principles applied for assignment of and migration to SI codes.	Follow-up: <input type="checkbox"/> Required from States	
When: 13-Dec-23	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 type="checkbox"/> Other: -		

CNS SG/28
Appendix C to WP/23

Reference		Subject	Status	Action Taken
Conclusion CNS SG/27/01 <i>(ACSICG/10/01)</i>	-	Adoption of the Asia/Pacific Regional ATN Documentation Tree	Completed	The Tree is being further modified.
Conclusion CNS SG/27/02 <i>(ACSICG/10/04)</i>	-	Telecommunication Infrastructure Table	Completed	Table is published on CRV portal hosted by New Zealand SL Ref.: T 8/2.15 –AP136/23(CNS) 20 September 2023 Subject: - Adoption of new Telecommunication Infrastructure Table requested to update the table.
Decision CNS SG/27/03 <i>(ACSICG/10/06)</i>	-	Revised ToR of Aeronautical Communication Services Implementation Coordination Group (ACSICG)	Completed	NA
Conclusion APANPIRG/34/9 <i>(CNS SG/27/04 (SWIM/TF/07/04))</i>	-	Asia/Pacific Regional FIXM version 4.2 Extension	Completed	Uploaded on e-docs SL AP037/24: Asia/Pacific Regional FIXM version 4.2 Extension sent on 27 Feb 2024. Based on the meeting results with the FIXM CCB on 16 May 2024, additional coordination is required. The meeting between the FIXM Development Team, the Extension Development Team, and the FIXM CCB was planned to be held to discuss observations from the FIXM CCB and then the APAC FIXM version 4.2 Extension will be considered for publication on the FIXM official website. Since no immediate required changes are needed, actions recommended by Conclusion APANPIRG/34/9 to forward the APAC FIXM version 4.2 extension to the

CNS SG/28
Appendix C to WP/23

				FIXM CCB for review before publishing on the FIXM official website are considered completed.
Conclusion CNS SG/27/05 <i>(SRWG/7/1)</i>	-	Asia Pacific Regional Aeronautical Radio Frequency Management Guidance Material Edition 1.0	Completed	SL Ref: T 8/2.15 – AP137/23 (CNS) 20 September 2023 Subject: Publication of Regional guidance materials for implementation of Air Navigation Facilities and Services in the Asia and Pacific Region Uploaded on e-docs
Conclusion CNS SG/27/06		Revised GBAS safety assessment guidance document related to anomalous ionospheric conditions	Completed	SL Ref: T 8/2.15 – AP137/23 (CNS) 20 September 2023 Subject: Publication of Regional guidance materials for implementation of Air Navigation Facilities and Services in the Asia and Pacific Region Uploaded on e-docs
Conclusion CNS SG 27/07	-	Revised SBAS safety assessment guidance document related to anomalous ionospheric conditions	Completed	SL Ref: T 8/2.15 – AP137/23 (CNS) 20 September 2023 Subject: Publication of Regional guidance materials for implementation of Air Navigation Facilities and Services in the Asia and Pacific Region Uploaded on e-docs
Conclusion CNS SG/27/08	-	Extension of the Asia/Pacific GBAS/SBAS Implementation Task Force to complete tasks as per ToRs of GBAS/SBAS ITF	Completed	NA
Conclusion APANPIRG/34/10 <i>(CNS SG/27/09)</i>	-	Revised Navigation Strategy - APAC	Completed	Ref.: T 8/5.1 – AP051/24 (CNS) 28 March 2024 Subject: Revised Navigation Strategy for the Asia/Pacific Region and General Strategy on Assignment of and Migration to SI Code in the

CNS SG/28
Appendix C to WP/23

				APAC Region Action Required: To note and consider the Strategies during implementation Uploaded on e-docs
Conclusion APANPIRG/34/11 <i>(CNS SG/27/10 (SURICG/8/1 (Mode S and DAPs WG/6/1)))</i>	-	General Strategy on Assignment of and Migration to SI Code in the APAC Region		SL Ref: T 8/2.15 – AP137/23 (CNS) 20 September 2023 Subject: Publication of Regional guidance materials for implementation of Air Navigation Facilities and Services in the Asia and Pacific Region Uploaded on e-docs
Conclusion CNS SG/27/11 <i>(SURICG/8/2 (Mode S and DAPs WG/6/2))</i>	-	Mode S DAPs IGD Edition 5.0	Completed	SL Ref: T 8/2.15 – AP137/23 (CNS) 20 September 2023 Subject: Publication of Regional guidance materials for implementation of Air Navigation Facilities and Services in the Asia and Pacific Region Uploaded on e-docs
Decision CNS SG/27/12 <i>(SURICG/8/4)</i>	-	Revised ToR of Surveillance Implementation Coordination Group (SURICG)	Completed	NA
Conclusion CNS SG/27/13	-	Regional Guidance Document for Addressing Human Factor Issues of ATSEP	Completed	SL Ref: T 8/2.15 – AP137/23 (CNS) 20 September 2023 Subject: Publication of Regional guidance materials for implementation of Air Navigation Facilities and Services in the Asia and Pacific Region Uploaded on e-docs

ACTION ITEMS OF CNS SG/27					
Action Item	Subject	Status / Target Date	Action Party	Status	Remarks / follow-up
27-1	ACSICG will update the ATN Documentation Tree every year based on latest development of relevant ICAO documents mentioned in the ATN Documentation Tree	CNS SG/28	ICAO Secretariat, ACSICG	On-going	
27-2	All Member States were requested to update the Telecommunication infrastructure table on priority	30-Sep-23	All Member States	Open	Ref.: T 8/2.15 –AP136/23(CNS) 20 September 2023 Subject: - Adoption of new Telecommunication Infrastructure Table Action Required: Update the Telecommunication Infrastructure Table before 31 October 2023. Propose to close
27-3	The Member States were requested to enhance network capabilities to support IWXXM requirements	CNS SG/28	All Member States	Open	
27-4	As Pakistan could not join the CNS SG/27 Meeting, the ICAO Secretariat will coordinate with Pakistan to get their intention to establish CRV connection with connected MID States. The ICAO Secretariat was requested to ascertain the intention of all members with entry/exit points between APAC and MID Regions	30-Sep-23	ICAO Secretariat	Open	Email sent on 13 September 2023. They shared intention to connect MID States on CRV Propose to close
27-5	The ICAO Secretariat of APAC Office was requested to coordinate with the ICAO MID Office, send a letter mentioning the successful experience and benefits of CRV attained by APAC Member States after joining CRV, invite PCCW Global to present significant information about the CRV network and its benefits to MID ATS Messaging Management Centre Steering Group (MIDAMC STG) (equivalent to the ACSICG in APAC Region)	CNS SG/28	ICAO Secretariat	Open	Sent to ICAO MID office by Ref.: T 8/2.15 - AP- CNS0109/23 15 December 2023. Propose to close
27-6	The ICAO Secretariat will coordinate with the MID office and PCCWG to organize a joint event to share the requested information with MIDAMC STG and other relevant ICAO MID Meetings	CNS SG/28 APX. D - 1	ICAO Secretariat	Open	Requested to org a day event with MDAMC STG. Waiting for reply. Joint event planned from 22-24 October 2024 in Saudi Arabia with CNS SG/13 Meeting of ICAO MID Region. Propose to close

ACTION ITEMS OF CNS SG/27					
Action Item	Subject	Status / Target Date	Action Party	Status	Remarks / follow-up
27-7	The selection and authorization of EMS within the region will be the next step after the EMS performance requirements are identified. Additionally, whether SWIM TF should select and authorize EMS within the region would need further deliberation in SWIM TF. ICAO Secretariat will share the request shared by the paper with SWIM TF.	CNS SG/28	ICAO Secretariat	Open	
27-8	The Meeting noted that CRV OG is already deliberating on the way forward to efficiently utilize available CRV bandwidth to disseminate obligatory critical aeronautical messages. Further guidelines related to this aspect may be prepared by CRV OG for ACSICG consideration and adoption by CNS SG. The ICAO Secretariat will share the pertinent information mentioned in the paper with CRV OG for further action	CNS SG/28	ICAO Secretariat	Open	Shared by CRV OG12 Critical message definition needs to be finalized. Currently, CRV is transmitting AMHS, Voice, etc.
27-9	ICAO HQ informed about the creation of a new inter panel task force to address the IPv6 addressing and other related mutual concerns, this may include the global guidelines for IPv6 dedicated address block for fixed service and A/G mobile service. ICAO Secretariat will further coordinate with appropriate ICAO HQ panels to update on the latest developments	CNS SG/28	ICAO Secretariat	Open	
27-10	A discussion for managing the IPv6 address space and DNS namespace could be initiated at the ACSICG and SWIM TF Meetings in the future	CNS SG/28	ACSICG, SWIM TF, ICAO Secretariat	Open	
27-11	Hong Kong China suggested the ICAO Secretariat to consolidate relevant experience from States/Administrations for High Resilience in Sustaining Operations of Critical Aeronautical Infrastructure into a guidance document for future reference	CNS SG/28	ICAO Secretariat, Hong Kong China	Open	
27-12	The Meeting also requested all Member States to nominate Point of Contact (PoC) to review CNS related updates that will be proposed by Ad-hoc Group and share PoC information with ICAO Secretariat by email at yluo@icao.int or snibhani@icao.int	CNS SG/28	ICAO Secretariat, All Member States	Open	
27-13	Hong Kong China suggested and IFATSEA agreed to update the guidance document's contents continuously. For example, it is worth considering incorporating the increasingly popular model to include the roles of supervisory and managerial roles of engineers who work with service providers and ensure their performance within the scope of activities as defined in DOC 10057	CNS SG/28	ICAO Secretariat, IFATSEA, Human factor guidance Ad-hoc Group	Open	Email sent on 13 September 2023 to add this into GM and present next version into CNS SG28 to IFATSEA Reminder on 8 Feb 2024
27-14	Human factors guidance material will be promoted in the other regions and in ICAO Assembly in the coming days.	CNS SG/28	IFATSEA	Open	