The Twenty Seventh Meeting of The CNS Sub-group (CNS SG/27) of APANPIRG
28 August - 01 September 2023
Bangkok, Thailand (UTC +7)

Day-1: 28 August 2023	
Time	**Schedule**

09:00-10:00	**Session 1**
	• Opening Remarks by Mr. Ma Tao, ICAO Regional Director
	• Opening Remarks by Mr. Richard Wu, Chairperson of the CNS Sub-group (CNS SG)
	• Introduction of Participants
	• Administrative Information
	
	Agenda Item 1: Adoption of the Agenda
	  • *WP/01 – Provisional Agenda*
	
	Group Photo
	
	Note:
	  1) *Please use IP/01- Meeting Bulletin for guidance to join the meeting.*
	  2) *Please find Meeting documents here.*

Tea/Coffee Break (30 Min) **Sponsored by LES Info**	

10:30-11:30	**Session 2**
	
	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 (cont.)
	  • *WP/02 - Review Outcomes of 41st Session of the Assembly – Sec*
	  • *WP/03- CNS SG/26 and APANPIRG/33 Conclusions/Decisions, and Action Items – Sec*
	  • *WP/04 - Outcomes of the First Meeting of the Asia and Pacific (APAC) Air Navigation Service Provider (ANSP) Committee (AAC/1) – Sec*
	  • *WP/05 – Air Traffic Management and Airspace Safety Monitoring Outcomes – Sec*

Lunch Break (90 Min) **Sponsored by THALES**	

13:00-14:00	**Session 3**
	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 (cont.)
	  • *WP/06 - Review Relevant Outcomes of the MET SG - Sec*
	  • *Presentation/01 - Global CNS Updates – Sec*
	
	Agenda Item 3: Aeronautical Fixed Service (AFS)
	3.1 ACSICG/10 including: CRV OG/11, CRV Workshop, and the First Meeting of CRV OG Ad-hoc Governance Group
	  • *WP/07 - Review the Report of ACSICG/10 – Sec*
	  • *WP/34- CRV Implementation status in India- India*

Tea/Coffee Break (30 Min) **Sponsored by LES Info**	

14:30-15:00	**Session 4**
	Agenda Item 3: Aeronautical Fixed Service (AFS)
	3.2 Other AFS related issues
	  • *WP/29 - Challenges and Requirements for IPS Environment – USA*
	  • *IP/14 - Distribution of XML files – USA*

Day-2: 29 August 2023	
Time	**Schedule**

09:00-10:00	**Session 5**
	Agenda Item 4: Information Management (IM)
	4.1 Review Report of SWIM TF/7
	     • *WP/08 - Review Report of SWIM TF/7 – Sec*
	4.2 Outcomes of SWIM Seminar
	     • *IP/17- Outcomes of SWIM Seminar*
	4.3 Other IM related issues
	     • *WP/32 - Multi Region TBO Demonstration – JPN, SGP, THA &USA*
	
	Agenda Item 5: Aeronautical Mobile Communications Service and Aeronautical electromagnetic spectrum utilization
	5.1 Review Report of the WRC-23 Workshop/RPG Meeting for WRC-2023
	     • *WP/09 - Report of Workshop on ITU World Radiocommunication Conference 2023 (WRC-23 Workshop) / Regional Preparatory Group (RPG) Meeting for WRC-2023 – Sec*
	     • *IP/15 – Outcomes of APG23-6 – Sec*

Tea/Coffee Break (30 Min) **Sponsored by Chinney**	

10:30-11:30	**Session 6**
	Agenda Item 5: Aeronautical Mobile Communications Service and Aeronautical electromagnetic spectrum utilization (Cont.)
	5.2 Review Report of SRWG/7
	     • *WP/10 - Review Report of SRWG/7 – Sec*
	     • *IP/13 - Progress on VHF Com Frequency Allotment Plan for APAC Region – CHN*
	
	5.3 Update on status of datalink applications and VHF capability sharing by States
	     • *WP/30 – Space-Based Very High Frequency (VHF) Communication Services – SGP*
	     • *IP/11 - LDACS Development in China - CHN*
	     • *IP/12 - New-Generation AeroMACS Project Progress in China – CHN*

Lunch Break (90 Min) **Sponsored by CETC Northwest Group**	

13:00-14:00	**Session 7**
	Agenda Item 5: Aeronautical Mobile Communications Service and Aeronautical electromagnetic spectrum utilization (Cont.)
	5.4 Other related issues
	     • *WP/27 – Report From CP-DCIWG-WG-M/1 Meeting - Rapporteur of CP-DCIWG-WG-M*
	     • *IP/02 - Guidance Material on the Protection of Radio Altimeter from Potential Harmful Interference from Cellular 5G Communications - Sec*
	Agenda Item 6: Navigation
	6.1 Review Report of PBNICG/10
	     • *WP/11 - Review Report of PBNICG/10 – Sec*
	6.2 Review Report of GBAS/SBAS ITF/5
	     • *WP/12 - Review Report of GBAS/SBAS ITF/5 - Sec*

Tea/Coffee Break (30 Mins) **Sponsored by Chinney**	

14:30-15:00	**Session 8**
	Agenda Item 6: Navigation
	6.3 Review Revised Navigation Strategy for the APAC Region
	     • *WP/13 - Revised Navigation Strategy for Asia Pacific Region - Sec*
	6.4 Other navigation related issues
	     • *WP/26 - Managing Challenges of In-Situ Replacement for Instrument Landing Systems at the World's Busiest Cargo Airport – HKG*
	     • *WP/33 - Feasibility Study and Trial of Using Drone to Enhance Efficiency in Flight Inspections At The Hong Kong International Airport - HKG*

Day-3: 30 August 2023	
Time	**Schedule**
09:00-10:00	**Session 9** **Agenda Item 6:** Navigation 6.4 Other navigation related issues • *IP/20 - Navigational Aids Check by Using Drone in Republic of Korea - ROK* • *IP/09 - BDS Standardization Status in ICAO – CHN* • *IP/10 - Research on BDS ISM Broadcast Scheme – CHN* • *IP/19 - Korea Augmentation Satellite System (KASS) Status – ROK*
Tea/Coffee Break (30 Min) **Sponsored by CETC Northwest Group**	
10:30-11:30	**Session 10** **Agenda Item 7:** Surveillance 7.1 SURICG/8 including: Mode S and DAPs WG/6, and SURSG/3 • *WP/14 - Review Report of SURICG/8 – Sec* 7.2 Other surveillance related issues • *IP/05 - Implementation of ADS-B Verification Technologies for Operational Surveillance System in Japan – JPN* **Agenda Item 8:** Automation 8.1 Review Report of ATMAS TF/4 • *WP/15 - Review Report of ATMAS TF/4 – Sec* 8.2 Other automation related issues *Nil* **Agenda Item 9:** Regional implementation review and updates 9.1 Seamless ANS Reporting Process including the ASBU regional performance dashboard /implementation plan • *WP/16 - Progress on APAC Seamless ANS Reporting Portal – Sec*
Lunch Break (90 Min) **Sponsored by Frequentis**	
13:00-14:00	**Session 11** **Agenda Item 9:** Regional implementation review and updates 9.1 Seamless ANS Reporting Process including the ASBU regional performance dashboard /implementation plan (Cont.) • *WP/28 – Updates on Seamless ANS Plan – Sec* • *WP/31 - Updates on Regional CNS Requirements in ICAO APAC e-ANP – Sec* • *WP/22 - Repository of AIDC Implementation Status in APAC – Sec* 9.2 National ANP and elements related to CNS *Nil*
Tea/Coffee Break (30 Min) **Sponsored by CETC Northwest Group**	
14:30-15:00	**Session 12** **Agenda Item 9:** Regional implementation review and updates 9.3 Beijing Declaration implemetation related to CNS • *WP/18 - Beijing Declaration Implementation in CNS – Sec* 9.4 Contingency Planning for CNS/ATM Infrastructure • *WP/17 - Achieving High Resilience in Sustaining Operations of Critical Aeronautical Infrastructure – HKG* • *IP/06 - The Importance of Preparation of Emergency Equipment for ATC as Risk Management – JPN*

Time	Schedule
Day-4: 31 August 2023	

09:00-10:00	**Session 13**
	
	Agenda Item 12: Cybersecurity of CNS/ATM systems
	12.1 Updates on ICAO International Aviation Trust Framework
	     • *IP/16 - Update on Trust Framework Activities - the Secretary of the Trust Framework Panel*
	12.2 Other Cybersecurity related issues
	     Nil
	Agenda Item 10: Review status of CNS deficiencies (APANPIRG Def. List)
	     • *WP/19 - Review Status of CNS Deficiencies – Sec*
	
	Agenda Item 11: Capacity Building, including Human Factors and Air Traffic Safety Electronics Personnel (ATSEPs) related training
	11.1 Review outcomes of small working group study on human factor issues of ATSEP
	     • *WP/20 - Review Outcomes of Small Working Group Study on Human Factor Issues of ATSEP– IFATSEA & Sec*

Tea/Coffee Break (30 Min) - Sponsored by Thales **VDO - Sponsored by Saab**	

10:30-11:30	**Session 14**
	
	Agenda Item 11: Capacity Building, including Human Factors and Air Traffic Safety Electronics Personnel (ATSEPs) related training (Cont.)
	     • *WP/21 - Implementation Support Project in Lao People's Democratic Republic (Lao PDR) ATM Infrastructure Operations Capability Building – Sec*
	     • *IP/18 - Technical Assistance Project ATM Infrastructure Operations Capability Building – Lao PDR*
	     • *IP/08 - ATSEP Competency Based Training in ATMB and CAAC – CHN*
	
	Agenda Item 13: Innovation and new technologies
	     • *WP/23 - Uniting the Strength of Innovation for Building a Seamless Sky - the Asia Pacific Region Innovation & Capacity Building Symposium 2023 (APICS 2023) - HKG*

Lunch Break (90 Min) **Sponsored by Saab**	

13:00-14:00	**Session 15**
	
	Agenda Item 13: Innovation and new technologies (Cont.)
	     • *IP/04 - Update on the Implementation of the ICAO Secretariat Strategy on Innovation – Sec*
	     • *IP/07 - The Long-Term Vision for The Future Air Traffic Systems of Japan (CARATS) – JPN*
	
	Agenda Item 14: Any Other Business
	     • *WP/24 - Comments/Feedback on Asia Pacific Ministerial Declaration on Civil Aviation (Delhi) – Sec*
	     • *WP/25 – CNS Points of Contact – Sec*
	
	Agenda Item 15: Dates of next meeting
	     • *IP/03 - CNS Meeting Plan for 2024 - Sec*

Tea/Coffee and COB **Sponsored by Thales**	

Time	Schedule
Day-5: 01 September 2023	
Coffee Klatch (60 Min) **Sponsored by Chinney**	
10:00-11:30	**Session 17** **Agenda Item 15:** Dates of next meeting • *Next Meeting date* **Review of Report** • *List of Action Items from CNS SG27- Sec* • *Draft Meeting Report review* • *Closing Remarks*
Lunch **Sponsored by LES Info**	
13:00	**Farewell**