







The Twenty Fourth Meeting of the Communications/Navigation and Surveillance (CNS SG/24) of APANPIRG

Bangkok, Thailand, 30 November – 4 December 2020 (Max 4 hrs. /day) (UTC+7)





	Pre-meeting	Meeting	Post-meeting
 30th Nov 2020 Day-1	<p>➤ 08:30 - 09:00</p> <p> Joining in meeting</p>	<p>➤ 09:00 - 13:00</p> <p>2: Detailed Agenda- Day 1</p>	----
01st Dec 2020 Day-2	<p>➤ 08:30- 09:00</p> <p> Joining in meeting</p>	<p>➤ 09:00 - 13:00</p> <p>3: Detailed Agenda- Day 2</p>	----
	<p>➤ 08:00 - 09:00</p> <p> Virtual Exhibition Booth *</p>	<p>➤ 11:00 - 11:15 (Break)</p> <p> Virtual Exhibition Booth</p>	<p>➤ 13:30 - 14:30</p> <p> Virtual Exhibition Booth</p>
2nd Dec 2020 Day-3	<p>➤ 08:30 - 09:00</p> <p> Joining in meeting</p>	<p>➤ 09:00 - 12:55</p> <p>4: Detailed Agenda- Day 3</p>	----
	<p>➤ 08:00 - 09:00</p> <p> Virtual Exhibition Booth</p>	<p>➤ 11:00 - 11:15 (Break)</p> <p> Virtual Exhibition Booth</p>	<p>➤ 13:30 - 14:30</p> <p> Virtual Exhibition Booth</p>
3rd Dec 2020 Day-4	<p>➤ 08:30 - 09:00</p> <p> Joining in meeting</p>	<p>➤ 09:00 - 12:30</p> <p>5: Detailed Agenda- Day 4</p>	----
	<p>➤ 08:00 - 09:00</p> <p> Virtual Exhibition Booth</p>	<p>➤ 11:15 - 11:30 (Break)</p> <p> Virtual Exhibition Booth</p>	<p>➤ 13:00 - 14:00</p> <p> Virtual Exhibition Booth</p>
4th Dec 2020 Day-5	<p>➤ 08:30 - 09:00</p> <p> Joining in meeting</p>	<p>➤ 09:00 - 11:30</p> <p>6: Detailed Agenda- Day 5</p>	----
	<p>➤ 08:00 - 09:00</p> <p> Virtual Exhibition Booth</p>	<p>➤ 10:30 - 10:45 (Break)</p> <p> Virtual Exhibition Booth</p>	<p>➤ 11:30 - 12:30</p> <p> Virtual Exhibition Booth</p>







* FAQ: What is Virtual Exhibition Booth?

The Twenty Fourth Meeting of the Communications/Navigation and Surveillance (CNS SG/24) of APANPIRG				
<i>Web-Conference, 30 November, 2020 – 4 December, 2020 (Max 4 hrs. /day, UTC+7)</i>				
	09:00 -09:30	09:30-11:45		12:00 - 13:00
<p>Mon. 30 Nov. (Day-1)</p>	<p style="text-align: center;"> Delegate Bag</p> <p>09:00 – 09:30</p> <p><u>Session 1 (Opening Session): 30 min</u></p> <ul style="list-style-type: none"> ➤ Opening speech by Mr. Arun Mishra, ICAO Regional Director ➤ Opening Remarks by Mr. Richard Wu, Chairman of the CNS Sub-group ➤ Introduction of participants ➤ Administrative information <p>Note:</p> <ol style="list-style-type: none"> 1) Please use IP/01- WEB-CONFERENCE BULLETIN for guidance to join the meeting. 2) Download meeting documents from following here. 	<p><u>Session 2: 135 min</u></p> <p>Agenda Item 1: Adoption of the Agenda</p> <ul style="list-style-type: none"> ➤ WP/01 - Provisional Agenda - Sec <p>Agenda Item 2: Review outcomes of APANPIRG/RASG Chairpersons review, APANPIRG/30 meeting, 40th Session of ICAO Assembly, ATM Sub-group and other major meetings relevant to CNS Sub-group</p> <ul style="list-style-type: none"> ➤ WP/02 - Outcomes of A40 and APANPIRG/30 on CNS – Sec ➤ IP/11 - Outcomes of APANPIRG/RASG chairpersons review– Sec ➤ WP/03- Outcome of ATM SG/8- Sec ➤ IP/10- CNS system resilience and GNSS interference- Sec <p>Agenda Item 4: Aeronautical Mobile Service and Aeronautical electromagnetic spectrum utilization</p> <p>4.1 Datalink updates,VHF sharing; 4.2 WRC-19; 4.3 WRC 2023; 4.4 SRWG/4; 4.5 Other AMS and Spectrum issues</p> <ul style="list-style-type: none"> ➤ WP/08 – Review report SRWG/4 – Sec ➤ IP/08 Report on the Results of the International Telecommunication Union (ITU) World Radiocommunication Conference (2019) (WRC-19)- Sec 	<p style="text-align: center;"> +  </p>	<p><u>Session 3: 60 min</u></p> <p>Agenda Item 4: Aeronautical Mobile Service and Aeronautical electromagnetic spectrum utilization</p> <p>4.1 Datalink updates,VHF sharing; 4.2 WRC-19; 4.3 WRC 2023; 4.4 SRWG/4; 4.5 Other AMS and Spectrum issues</p> <ul style="list-style-type: none"> ➤ IP/09- Draft ICAO Position for ITU WRC-23- Sec ➤ Flimsy/2-ICAO Position and WRC preparations- Sec ➤ WP/26- Space-based VHF communications in 117.975-137 MHz frequency band- Singapore

The Twenty Fourth Meeting of the Communications/Navigation and Surveillance (CNS SG/24) of APANPIRG

Web-Conference, 30 November, 2020 – 4 December, 2020 (4.5 hrs. /day, UTC+7)





	09:00- 11:00		11:15- 12:35	12:35 -13:30
<p>Tue. 1Dec. (Day-2)</p>	<p align="center"> Delegate Bag</p> <p><u>Session 4: 120 min</u></p> <p>Agenda Item 3:Aeronautical Fixed Service (AFS) 3.1-ACSICG/7 including CRV OG7; 3.2-AMHS readiness for IWXXM; 3.3- APA TF/6; 3.4 SWIM TF/4; 3.5 SWIM Demonstration; 3.6- other AFS issues</p> <ul style="list-style-type: none"> ➤ WP/04 - ACSICG/7 including CRV OG7 – Sec ➤ WP/24 Draft CRV operations manual- New Zealand ➤ WP/05- AMHS Readiness Status for Supporting IWXXM Traffic-Sec ➤ IP/21- Updates On APAC Implementation of IWXXM Exchange Over AMHS- Sec ➤ IP/23- Presentation of PCCW Network Based IWXXM Translation and Exchange Services- Fiji ➤ WP/06 - APA TF/6 - Sec 	<p align="center"> +</p> <p align="center"> NOKIA</p>	<p><u>Session 5: 80 min</u></p> <p>Agenda Item 3:Aeronautical Fixed Service (AFS) 3.1-ACSICG/7 including CRV OG7; 3.2-AMHS readiness for IWXXM; 3.3-APA TF/6; 3.4 SWIM TF/4; 3.5 SWIM Demonstration; 3.6- other AFS issues</p> <ul style="list-style-type: none"> ➤ WP/07 - SWIM TF/4 – Sec ➤ WP/23- SWIM in ASEAN demonstration report- Singapore and Thailand <p>Agenda Item 12: Discuss and share experience and application of new technologies, including big data analysis, artificial intelligence, Digital-Tower</p> <ul style="list-style-type: none"> ➤ ANSP International Connectivity and Cybersecurity- Nokia <p>Agenda Item 6: Surveillance 6.1Report of SURICG/5 (including SEA/BOB/15 and DAPs WG/3); 6.2 Other surveillance issues</p> <ul style="list-style-type: none"> ➤ WP/10 - SURICG/5 report - Co-Chair ➤ WP/22 Collaboration in sharing of surveillance data in SWIM- Hong Kong and Singapore 	<p><u>Session 6: 55 min</u></p> <p>Agenda Item 6: Surveillance 6.1Report of SURICG/5 (including SEA/BOB/15 and DAPs WG/3); 6.2 Other surveillance issues</p> <ul style="list-style-type: none"> ➤ IP/05- Air Traffic control surveillance activities in India ➤ IP/16- Japan’s Effort to A-SMGCS: Data-driven and Simulation-based Research Activities on Airport Surface Traffic Flow ➤ IP/20 Lockout override operation to avoid IC(II) code collision- Republic of Korea

The Twenty Fourth Meeting of the Communications/Navigation and Surveillance (CNS SG/24) of APANPIRG			
<i>Web-Conference, 30 November, 2020 – 4 December, 2020 (4.5 hrs. /day, UTC+7)</i>			
	09:00- 10:00	10:00- 11:00	 11:15 - 13:30
<p>Wed. 2Dec.</p> <p>(Day-3)</p>	<p style="text-align: center;"> Delegate Bag</p> <p><u>Session 7:</u> 60 min</p> <p>Agenda Item 7: Automation 7.1 Seminar on Air Traffic Management Automation System and the report of the First Meeting of ATM Automation Systems Task Force (ATMAS TF/1) 7.2 Other automation related issues</p> <ul style="list-style-type: none"> ➤ WP/11 Seminar on Air Traffic Management Automation System, and the First Meeting of the Asia/Pacific Air Traffic Management Automation System Task Force (ATMAS TF/1)- Sec ➤ IP/06- Challenges in implementation of ATM automation System-India ➤ IP/12-Lessons Learned from New ATM Automation System Implementation- Thailand <p>Agenda Item 5: Navigation 5.1PBNICG/7 report; 5.2 GBAS/SBAS ITF/1 and GBAS/SBAS ITF/2; 5.3 Seminar on flight inspection; 5.4 GM for flight inspection; 5.5 Other navigation related issues</p> <ul style="list-style-type: none"> ➤ WP/09 - PBNICG/7 Report – Sec ➤ WP/12 GBAS/SBAS ITF/1 and GBAS/SBAS ITF/2- TF Chair ➤ IP/13-Status of GBAS Implementation in Japan ➤ IP/14-GBAS VDB Frequency Compatibility for Tokyo Haneda-Japan ➤ IP/15- SBAS Status Update in Japan 	<p><u>Session 8:</u> 60 min</p> <p>Agenda Item 12: Discuss and share experience and application of new technologies, including big data analysis, artificial intelligence, Digital-Tower</p> <ul style="list-style-type: none"> ➤ <i>Application of New Technologies in ATC HMI Design- Thales</i> <p>Agenda Item 5: Navigation 5.1PBNICG/7 report; 5.2 GBAS/SBAS ITF/1 and GBAS/SBAS ITF/2; 5.3 Seminar on flight inspection; 5.4 GM for flight inspection; 5.5 Other navigation related issues</p> <ul style="list-style-type: none"> ➤ WP/13- Seminar on flight inspection – Sec ➤ WP/18- Flight Inspection Guidance Material (FIGM) for APAC Region-Hong Kong-China ➤ IP/02 – RPAS based flight Inspection- China ➤ IP/19-Navigational Aids Check by Using Drone in Republic of Korea- Republic of Korea 	<p><u>Session 9:</u> 135 min</p> <p>Agenda Item 5: Navigation 5.1PBNICG/7 report; 5.2 GBAS/SBAS ITF/1 and GBAS/SBAS ITF/2; 5.3 Seminar on flight inspection; 5.4 GM for flight inspection; 5.5 Other navigation related issues</p> <ul style="list-style-type: none"> ➤ WP/21 Protection of instrument landing system (ILS) critical and sensitive areas in three-dimensional and ILS facility performance category requirements- Hong Kong, China ➤ IP/03-BDS SARP's validation in ICAO- China ➤ IP/04 -BDSBAS status update- China <p style="text-align: center;"></p> <p style="text-align: center;">+</p> <p style="text-align: center;"> </p> <p>Agenda Item 8: Review and updates 8.1 Seamless ATM Reporting Process and ASBU regional performance dashboard/implementation plan; 8.2 National ANP and elements related to CNS; 8.3 Updates on collaboration between ICAO Regional Office and Euro control on tools and services related to CNS</p> <ul style="list-style-type: none"> ➤ IP/07 China civil aviation G-G communication network status- China ➤ IP/17-The Long-term Vision for the Future Air Traffic Systems of Japan (CARATS) ➤ IP/22- Update of ADS-B &AIDC implementation in Indonesia- Indonesia. (10 min) ➤ IP/24- Reinforcement of CNS Capability Around Fukue-AKARA Corridor Area in Incheon FIR- Republic of Korea ➤ SP/02 – Updates on CNS collaboration between ICAO Regional Office and EUROCONTROL CNS SG/24 of APANPIRG- Eurocontrol

The Twenty Fourth Meeting of the Communications/Navigation and Surveillance (CNS SG/24) of APANPIRG

Web-Conference, 30 November, 2020 – 4 December, 2020 (Max 4 hrs. /day, UTC+7)

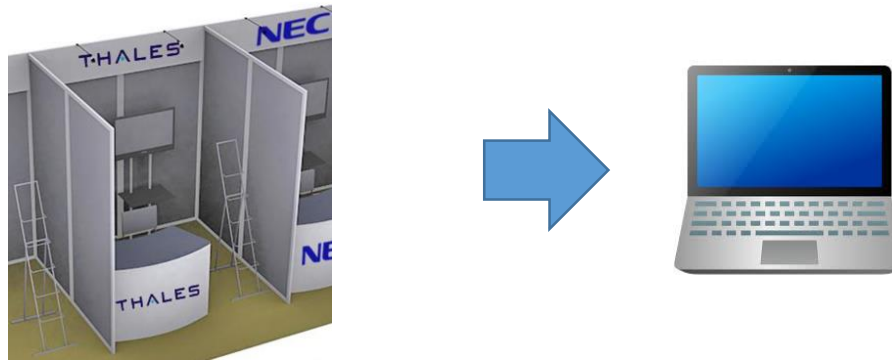
	<p>09:00- 10:00</p>	<p>10:00- 11:15</p>	<p> 11:30- 13:00</p>
<p>Thu. 3Dec. (Day-4)</p>	<p> Delegate Bag</p> <p><u>Session 10:</u> 60 min</p> <p>Agenda Item 11: Cybersecurity of CNS/ATM systems 11.1 Review outcomes of ICAO Regional Cyber Safety & Resilience Workshop with Tabletop Exercise (TTX); and 11.2 Updates on ICAO International Trust Framework</p> <ul style="list-style-type: none"> ➤ SP/01- ICAO trust framework Update- Sec, HQ ➤ WP/14- Review Outcomes of ICAO Regional Cyber Safety & Resilience Workshop with Tabletop Exercise (TTX)- Sec <p>Agenda Item 10: Human Factors and ATSEP related training</p> <p>10.1 Review outcomes of small working group study on human factor issues of ATSEP</p> <ul style="list-style-type: none"> ➤ WP/25- Review Outcomes of Small Working Group Study On Human Factor Issues of ATSEP- IFATSEA 	<p><u>Session 11:</u> 75 min</p> <p>Agenda Item 12: Discuss and share experience and application of new technologies, including big data analysis, artificial intelligence, Digital-Tower</p> <ul style="list-style-type: none"> ➤ IT VCS for ATM- Frequentis <p>Agenda item 9: Review status of CNS deficiencies (APANPIRG Deficiency List)</p> <ul style="list-style-type: none"> ➤ WP/16- Action of Communication Status Improvement between China and Pakistan and Suggestion on Removal of the Relevant CNS Deficiency-China ➤ WP/19- Review CNS Deficiency-Sec 	<p><u>Session 12:</u> 90 min</p> <p>Agenda Item 13: CNS related work/projects impacted by COVID-19</p> <ul style="list-style-type: none"> ➤ WP/15 ANS planning & provision- a new normal-CANSO ➤ WP/17- CNS related work/projects impacted by COVID-19-India ➤ WP/20- Impact of COVID-19 to CNS Works)- Sec <p>Agenda Item 14: Dates of next meeting and any other business</p> <ul style="list-style-type: none"> ➤ IP/18- Introduction of The Network Performance Assessment Center- Japan ➤ Flimsy/01-CNS meeting planning for 2021- Sec

The Twenty Fourth Meeting of the Communications/Navigation and Surveillance (CNS SG/24) of APANPIRG			
Web-Conference, 30 November, 2020 – 4 December, 2020 (Max 4 hrs. /day, UTC+7)			
	09:00- 10:30		10:45-11:30
Fri. 4Dec. (Day-5)	 Delegate Bag <u>Session 13:</u> 90 min Agenda Item 14: Dates of next meeting and any other business <ul style="list-style-type: none"> ➤ TCB brief experience on CNS- Sec-HQ Agenda Item 12: Discuss and share experience and application of new technologies, including big data analysis, artificial intelligence, Digital-Tower <ul style="list-style-type: none"> ➤ Digital Transformation - The Airport and Beyond- Searidge ➤ Review Draft report of the meeting- Sec 		<u>Session 14:</u> 45 min <ul style="list-style-type: none"> ➤ Review Draft report of the meeting- Sec ➤ Closure of the meeting

What is Virtual Exhibition Booth?



Virtual booth is a step to adopt new normal of online meetings while maintaining similar experience of face-face meetings by delegates. It is the similar concept of the physical exhibition booth where the exhibitors can showcase their technologies, developments, solutions, products and services information to the delegates during the hours outside the meeting. This information is always considered to be important and has been incorporated by ICAO in Agenda item-12. It helps delegates to get up to date information of latest technologies.



The virtual exhibition booth will be like another virtual meeting room using various online platform like Microsoft Teams, Zoom, etc. accessed through the link created. Vendor who owns the booth will present/lead in the virtual booth.



More improvements will be incorporated in future based on the feedbacks of the delegates.