



ICAO BANGKOK

UNITING AVIATION

Key Outcomes of APANPIRG/34

Presented by
CAPTAIN MANUEL ANTONIO L. TAMAYO
Chairperson, APANPIRG





Outlines

- 1) **APANPIRG/34 Meeting - Overview**
- 2) **APANPIRG/34 Key Outcomes**
- 3) **APANPIRG/34 Conclusions**
- 4) **APAC Air Navigation Challenges and Priorities for 2024**



APANPIRG/34 Meeting - Overview

Date: 11 to 13 December 2023

Venue: Hong Kong China

Attendees: 146 participants

26 Member States

2 SARs of China

7 International Organizations

ACI, CANSO, IATA, ICCAIA, ICAO,

IFALPA IFATCA

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



APANPIRG/34 – Key Outcomes

Conclusion 34/1	APAC Regional Seamless Air Navigation Services (ANS) Reporting Form 3.0 and Cloud-based Seamless ANS Implementation Progress Reporting
Conclusion 34/2	ICAO HQ Support for Regional ANS Implementation
Conclusion 34/3	Runway Turn Pad Design and Marking Conclusion 34/4 – ICAO Asia-Pacific Aerodrome Assistance Go-Team Methodology
Conclusion 34/4	ICAO Asia-Pacific Aerodrome Assistance Go-Team Methodology



APANPIRG/34 – Key Outcomes

Conclusion 34/5	ICAO Asia/Pacific Wildlife Hazard Management (WHM) Go-Team Methodology
Conclusion 34/6	Development of 5-letter name code (5LNC) pronunciation phonetic guidance and pronunciation at Transfer of Control (TOC) points
Conclusion 34/8	Formal Service Arrangements with Central Reporting Agency (CRA)
Conclusion 34/9	Asia/Pacific Regional Flight Information Exchange Model (FIXM) version 4.2 Extension
Conclusion 34/10	Revised Navigation Strategy – APAC

**APANPIRG/34 – Key Outcomes****Conclusion 34/11****General Strategy on Assignment of and Migration to Surveillance Identifier (SI) Code in the APAC Region****Conclusion 34/12****Information exchange model (IWXXM) version compatibility****Conclusion 34/13****Global Dissemination of IWXXM****Conclusion 34/15****Adherence to ICAO Principles and for Setting Air Navigation Charges****Conclusion 34/16****Update of Information in APANPIRG Air Navigation Deficiencies Reporting Form**



DECISIONS

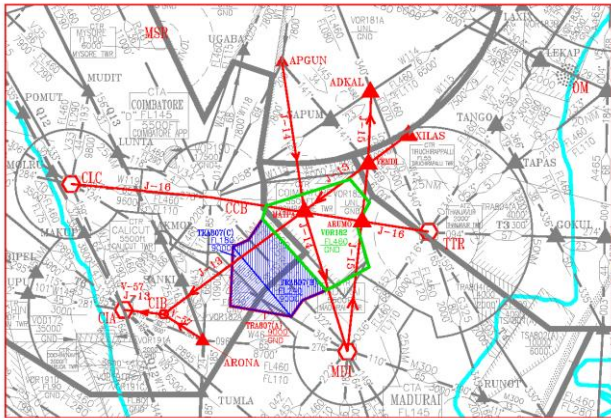
Decision 34/7

Update AIS-AIM Implementation Task Force (AAITF) Terms of Reference

Decision 34/14

Replacement of the Volcanic Ash Exercises Steering Group (VOLCEX) Steering Group by the MET Exercise Advisory Group

State's progress on the implementation of the Beijing Declaration Commitments on **Air Navigation Services**



Aeronautical Information Management (AIM)

Target: Transition from AIS to AIM by 2022

- ✈ **Phase I** : Consolidation existing standards :
QMS and standardized geodetic data
 - 100% was expected but current status is 60 %
- ✈ **Phase II** : Digital databases
 - 100% was expected but current status is 42 %



Performance Based Navigation (PBN)

Target implementation: 2022

- ❖ Continuous progress since 2018
- ❖ States to continue to implement PBN for approach, arrival and terminal procedures.

Ground telecommunication infrastructure and surveillance capability

-  Common ground/ground telecommunication infrastructure to support ANS applications

Target implementation: 2022

-  Enhanced surveillance capability including ADS-B technology

Target implementation: 2022



Ground telecommunication infrastructure and surveillance capability

<ul style="list-style-type: none">✈ Joined Common aeronautical VPN (CRV)<ul style="list-style-type: none">✈ 22 States from 1 in Jan 2018	<ul style="list-style-type: none">✈ Issued ADS-B mandate<ul style="list-style-type: none">✈ 12 States from 08 in Jan 2018
<ul style="list-style-type: none">✈ Implemented aeronautical Message Handling System (AMHS)<ul style="list-style-type: none">✈ 28 States	<ul style="list-style-type: none">✈ Used ADS-B for separation and others for awareness, gap filling and redundancy.<ul style="list-style-type: none">✈ 14 States (9 in Jan 2018)
<ul style="list-style-type: none">✈ Installed ADS-B ground stations<ul style="list-style-type: none">✈ 31 States from 24 in Jan 2018	

Civil Military Cooperation

- Target: enhanced level of civil/military cooperation by 2022
 - optimize the use of airspace and
 - more efficient ATM system in APAC.



Air Traffic Flow Management (ATFM) / Collaborative Decision Making (CDM) for high-density airports

- ✈ Target implementation 2022
- ✈ Implemented Airport Collaborative Decision Making
 - ✈ 76% of high-density airports
- ✈ ATFM Implementation in APAC States
 - ✈ Slow but steady



1. APAC Seamless ANS Reporting Tool official launch
2. Aerodrome Assistance and Wildlife Hazard Management (WHM) Go-Team Methodology
3. Asia/Pacific SAR Plan (Aeronautical Distress and Safety System (GADSS), elements
4. Asia/Pacific Plan for Collaborative Aeronautical Information Management (ATM/SG)



5. PBN GO Team (Brunei and Indonesia)

Aerodrome Assistance (Lao PDR and Brunei)

6. Adopted Flight Information Exchange (FIXM) version 4.2 Extension as Asia/Pacific FIXM version 4.2 Extension

7. Revised Navigation Strategy for the APAC Region and General Strategy on Assignment of and Migration to Surveillance Identifier (SI) Code in the APAC Region



ICAO APAC Seminars/Workshops/Webinars conducted

ATM (3)

CNS (6)

AOP (2)

MET (2) & ENV (1)

RSO (3)



STATES AND APANPIRG ACTIONS TO RESOLVE AIR NAVIGATION DEFICIENCY

AN Fields	No of AN DEF resolved in 2022	No of AN DEF resolved in 2023
ATM/AOP/CNS/MET	13	15 2 in ATM 13 in AOP

**APANPIRG/34 Conclusions - Action required by HQ**

Conclusion APANPIRG/34/2	ICAO HQ Support for Regional ANS Implementation Reporting Tools
Conclusion APANPIRG/34/3	Runway Turn Pad Design and Marking
Conclusion APANPIRG/34/6	Development of 5-letter name code (5LNC) pronunciation phonetic guidance and harmonized pronunciation at Transfer of Control (TOC) points
Conclusion APANPIRG/34/13	Global Dissemination of Information exchange model (IWXXM)



APAC Challenges in Air Navigation

For Action by ANC, Council, or HQ





SWIM Implementation in APAC region



Civil - Military ATM Cooperation (CMAC) Implementation





Global Navigation Satellite System (GNSS) Interference





Aerodrome Assistance for Pacific Small Island Developing States (PSIDS)





APAC Main Air Navigation Priorities for 2024



1) Aerodrome Operations and Planning (AOP)

- Implementation of Global Reporting Format (GRF)
- Implementation of Aircraft classification rating-pavement classification rating (ACR-PCR) method of reporting bearing strength of aerodrome pavements
- Guidance and training on aeronautical studies
- Safety management of ground handling services



2. Air Traffic Management (ATM)

- Implementation of PANS-ATM ATC separation minima within Flight Information Region (FIR) and at the Transfer of Control (TOC) point
- Contingency Management



Regional Airspace Safety Monitoring Advisory Group (RASMAG)

- Formalize CRA agreements with APANPIRG-recognized, competent Central Reporting Agency
- Ensure RVSM approvals are submitted for State aircraft or remove 'W' indicator in the flight plan if they are not RVSM approved
- Continue to work towards meeting the Long-Term Height Monitoring requirements



4) **Communications, Navigation and Surveillance (CNS)**

- Support Pacific States to join the CRV program before December 31, 2024 and initiate a new CRV contract management process.
- Automatic Dependent Surveillance - Broadcast (ADS-B) implementation in LDCs
- Promote awareness on Global Navigation Satellite System (GNSS) interference
- Drafting regional guidance for the implementation of GBAS and SBAS



5) Meteorology (MET)

- Development of the MET parts of the APAC ANP
- MET information in IWXXM form – identify Air Navigation Deficiencies
- Coordination of (Significant Meteorological) SIGMET information
- Volcanic ash exercises (especially in PSIDS)



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Central American
and Caribbean
(NACC) Office
Mexico City

South American
(SAM) Office
Lima

ICAO
Headquarters
Montréal

Western and
Central African
(WACAF) Office
Dakar

European and
North Atlantic
(EUR/NAT) Office
Paris

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THANK YOU