



INTERNATIONAL CIVIL AVIATION ORGANIZATION

**TWENTY EIGHTH MEETING OF THE ASIA/PACIFIC
AIR NAVIGATION PLANNING AND IMPLEMENTATION
REGIONAL GROUP (APANPIRG/28)**

Bangkok, Thailand, 11 to 14 September 2017

Agenda Item 1A: Follow-up on the Outcome of APANPIRG/27 Meeting

**1.2: Review status of implementation of APANPIRG/27
Conclusions and Decisions**

**STATUS OF IMPLEMENTATION OF APANPIRG/27
CONCLUSIONS AND DECISIONS**

(Presented by the Secretariat)

SUMMARY

This Paper presents the follow-up action taken by ICAO and States on the APANPIRG/27 Conclusions and Decisions

Strategic Objectives:

A: *Safety* – *Enhance global civil aviation safety*

B: *Air Navigation Capacity and Efficiency* — *Increase the capacity and improve the efficiency of the global aviation system*

E: *Environmental Protection* — *minimize the adverse environment effects of civil aviation activities.*

Action by the Meeting is at Para 3 to this Working Paper.

1. INTRODUCTION

1.1 APANPIRG/27 adopted the table which provides for each Conclusion/Decision, the related ICAO Strategic Objective(s), the follow-up action to be taken, Organisation responsible to initiate action, expected deliverable(s) and the target date for completion. The format is in line with the ICAO Business Planning and Performance Based Approach.

2. DISCUSSION

2.1 APANPIRG/27 adopted 50 Conclusions and 6 Decisions which are presented in **Appendix A** to this Working Paper. A column is added to the table to show the recommendation made by Air Navigation Commission. Out of the 56 items listed; action has been taken to close/complete 48 Conclusions and 6 Decisions. Action on 2 Conclusions [12 & 52] is in progress.

3. ACTION BY THE MEETING

3.1 The Meeting is invited to:

- a) note the progress made on the APANPIRG/27 Conclusions and Decisions as given in **Appendix A** to this paper; and
- b) review and propose further action.

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APANPIRG/27 Conclusions/Decisions – Action Plan

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
C 27/1 A & B	Mobilization of human / financial resources to achieve the Seamless ATM Plan objectives	That, States/Administrations not achieving the expected implementation progress of regional priorities for Air Navigation Systems, should: a) give highest priority to the implementation of regional priorities and provide human/financial resources to CAAs and ANSPs to complete Seamless ATM phase I implementation; and b) mobilize human and financial resources to plan for timely implementation of phase 2 and phase 3 elements assessed as relevant by their national gap analysis.	ICAO APAC APAC States;	State Letter Action in accordance with the conclusion	October 2016	State Letter COMPLETED T 8/5.15:AP100/16 (CNS)	
D 27/2 A & B	Establishment of A-CDM Task Force	That, an Asia/Pacific Airport Collaborative Decision Making Task Force (APA-CDM/TF) is established in accordance with the Terms of Reference at Appendix A to APANPIRG 27/WP/6 .	ICAO APAC	State Letter	September 2016	State Letter COMPLETED AN 3/3 — AP107/16 (AGA) dated 20 September 2016 APA-CDMTF/1 Meeting conducted on 20 – 21 April 2017	

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Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
C 27/3 A & B	Seminar on Implementation of A- CDM to Enhance Airport Efficiency and Capacity	That, ICAO be invited to organize an A-CDM seminar/workshop in conjunction with the First Meeting of the ACDMTF in April 2017.	ICAO APAC; ICAO HQ	Conduct Seminar	April 2017	Conduct Seminar COMPLETED AN 3/3 — AP020/17 (AGA) dated 6 February 2017 APA-CDM Seminar conducted on 19 April 2017 in Kunming, China	
C 27/4 A & B	Capacity Building in Aerodrome Certification	That, States with adequate resources are encouraged to assist States with low Effective Implementation scores in USOAP audits in the area of aerodrome certification and extend support in drafting legislations, aerodrome regulations, aerodrome manual, guidance material/manuals and in training of aerodrome inspectors.	ICAO APAC APAC States;	State Letter Action in accordance with the conclusion	October 2016 Not specified	State Letter COMPLETED AN 3/3 — AP106/16 (AGA) dated 20 September 2016	
C 27/5 A & B	Certification of Aerodromes	That, States/Administrations are urged to implement the certification of aerodromes in compliance with the ICAO Annex 14, Volume I requirements and Doc 9981 – PANS Aerodromes.	ICAO APAC APAC States	State Letter Action in accordance with the conclusion	November 2016 APAC States to report updates to AOPSG/1 by May 2017	State Letter COMPLETED AN 3/3 — AP106/16 (AGA) dated 20 September 2016	

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Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
C 27/6 A & B	Implementation of Environmental Friendly Measures at Airports	That, States/ Administrations encourage their airport operators to support and implement environmental friendly measures at their airports.	ICAO APAC APAC States	State Letter Action in accordance with the conclusion	October 2016	State Letter COMPLETED AN 3/3 — AP105/16 (AGA) dated 20 September 2016	
C 27/7 A & B	PBCS Operator Requirements	That, States are urged to take appropriate measures to develop, establish, implement and promulgate, through advisory circular or other relevant State instrument, necessary policies and procedures to enable operators conducting flights in airspace where separations are dependent on Performance-Based Communication And Surveillance (PBCS) to start using Required Communication Performance (RCP) / Required Surveillance Performance (RSP) indicators in the flight plan as soon as possible. This should take into account: a) time for the operator to comply with the States' policies; and b) the need for the State to distribute data from PBCS monitoring programs, as necessary.	ICAO APAC APAC States	State Letter Follow-up Survey by FIT-Asia	September 2016 September 2016	State Letter COMPLETED Ref. T 3/10.0 – AP131/16 (ATM)	

APANPIRG/27 Conclusions/Decisions – Action Plan

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
C 27/8 A & B	State Implementation of ICAO Provisions for PBCS	That, States which apply or plan to apply 30 NM and/or 50 NM longitudinal separation minima and/or 23 NM lateral separation minimum are urged to: a) implement the ATM system capability to process and use ICAO PBCS flight plan indicators to determine aircraft eligibility for performance-based separation by not later than 29 March 2018; and b) apply common implementation dates using RCP/RSP indicators to establish performance-based separation in adjacent airspace, supported by joint submission of Proposals for Amendment (PfA) to ICAO Doc 7030 – Regional Supplementary Procedures.	ICAO APAC APAC States	State Letter Follow-up survey by FIT-Asia	September 2016 September 2017	State Letter COMPLETED Ref. T 3/10.0 – AP131/16 (ATM)	
C 27/9 A & B	Asia/Pacific Region PBCS Transition Strategy	That, the Asia/Pacific Region PBCS Transition Strategy at APANPIRG/27/WP/7 Attachment A is endorsed, and posted on the Asia/Pacific Regional Office website.	ICAO APAC	State Letter Post Transition Strategy to APAC Website	September 2016 September 2016	State Letter COMPLETED Ref. T 3/10.0 – AP131/16 (ATM)	

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Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
C 27/10 A & B	Airspace Safety Concern Response	That, the significant airspace safety issues and hot spots identified by RASMAG, Asia/Pacific States / Administrations are urged to take urgent action to: a) review the RASMAG/21 Report; b) in cooperation with relevant Regional Monitoring Agencies (RMAs), determine corrective action plans (which should include an emphasis on operational improvements in addition to system upgrades; and c) implement the corrective actions in an effective manner.	ICAO APAC APAC States	State Letter Action in accordance with the Conclusion	September 2016 Not specified	State Letter COMPLETED Ref. T 3/10.0 – AP132/16 (ATM)	

APANPIRG/27 Conclusions/Decisions – Action Plan

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
C 27/11 A & B	Origination of Flight Plan and ATS Messages	<p>That, taking into account the Regional Framework for Collaborative ATFM Performance Improvement Plan provisions relating to the submission of FPL and ATS messages, States are urged to publish in AIP the requirement that:</p> <p>a) except where necessary for operational or technical reasons, FPL should be submitted not less than 3 hours before EOBT;</p> <p>b) DLA messages should be originated when the departure of an aircraft, for which basic flight plan data (FPL or RPL) has been sent, is delayed by 15 minutes or more after the EOBT contained in the basic flight plan data; and</p> <p>c) CHG and CNL messages are promptly originated in accordance with the provisions of ICAO Doc 4444 Procedures for Air Navigation Services (PANS-ATM) 11.4.2.2.</p>	<p>ICAO APAC</p> <p>APAC States</p>	<p>State Letter</p> <p>Action in accordance with the Conclusion</p>	<p>September 2016</p> <p>Not specified</p>	<p>State Letter</p> <p>COMPLETED Ref. T 3/10.0 – AP129/16 (ATM)</p>	

APANPIRG/27 Conclusions/Decisions – Action Plan

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
C 27/12 A & B	Origination and Distribution of Departure (DEP) Messages	That, recognizing the importance of AFTN departure (DEP) messages in the management and coordination of flight plans in both manual and automated ATM environments, ICAO be requested to: 1. Conduct an analysis of the incidence of non-receipt of DEP messages required by ICAO Doc 4444 Procedures for Air Navigation Services (PANS-ATM) Section 11.4.2.2; 2. Request that States failing to ensure correct transmission of DEP messages promptly take corrective action and report the status of corrective actions to the ICAO APAC Regional Office by 30 April 2017; and 3. Raise APANPIRG Air Navigation Deficiencies against failure by States to comply with Doc 4444 Section 11.4.2.2, at APANPIRG/28.	ICAO APAC APAC States	Conduct Analysis, follow-up State Letters Conduct follow-up analysis and raise Air Navigation Deficiencies Action in accordance with the Conclusion	October 2017 October 2017 October 2017 Not specified	Conduct Analysis, COMPLETED NEED TO CONDUCT FOLLOW UP TO BETTER REFINE THE SURVEY follow-up State Letters COMPLETED Ref. T 3/10.0 – AP129/16 (ATM) Conduct follow-up analysis and raise Air Navigation Deficiencies SUBJECT TO THE FURTHER ANALYSIS	

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Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
C 27/13 A & B	Update Regional Framework for Collaborative ATFM	That, the Asia/Pacific Regional Framework for Collaborative ATFM Version 2.0 incorporating: a) the amended text in APANPIRG/27/WP/7 Attachment B ; and b) as an appendix, the Regional ATFM Implementation Guidance document provided in APANPIRG/27/WP/7 Attachment C ; be made available on the ICAO Asia/Pacific Regional Office web site, replacing Version 1.0.	ICAO APAC	State Letter Update Regional Framework for Collaborative ATFM to include amended text and new appendix post to website	September 2016 September 2016 September 2016	State Letter COMPLETED Ref. T 3/10.0 – AP129/16 (ATM) Update Regional Framework for Collaborative ATFM to include amended text and new appendix COMPLETED post to website COMPLETED	

APANPIRG/27 Conclusions/Decisions – Action Plan

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
C 27/14 A & B	State Review of the Regional Framework for Collaborative ATFM	That, the: a) need for harmonized, interoperable State and Sub-Regional ATFM implementation to achieve cross-border ATFM in the Asia/Pacific Region; and that the b) Asia/Pacific Regional Framework for Collaborative ATFM, (available on the Asia/Pacific Regional Office web site), is the primary planning document addressing ATFM implementation and operational issues in the Asia/Pacific Region; States are urged to: 1. review the Regional Framework for Collaborative ATFM; and 2. ensure that full consideration is given in all ATFM implementation planning to the provisions of the Regional Framework for Collaborative ATFM.	ICAO APAC APAC States	State Letter Action in accordance with the Conclusion	September 2016 Not specified	State Letter COMPLETED Ref. T 3/10.0 – AP129/16 (ATM)	
C 27/15 A & B	Use of Alpha Numeric Call-signs for Scheduled Airline Operations	That, ICAO conducts a Survey of Asia Pacific States to ascertain the status of capability to accept / process alphanumeric ATC call-signs for scheduled airline operations.	ICAO APAC	Conduct survey	August 2017	Conduct survey COMPLETED	

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Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
C 27/16 A & B	Asia/Pacific Seamless ATM Plan Update	That, the draft Seamless ATM Plan as updated in accordance with the 2016 review at APANPIRG/27/WP/7 Attachment D is approved as version 2.0 and uploaded to the ICAO Regional Office website.	ICAO APAC APAC States;	State Letter Post updated Seamless ATM Plan to website	September 2016 September 2016	State Letter COMPLETED Ref. T 3/10.0 – AP134/16 (ATM) Post updated Seamless ATM Plan to website COMPLETED	
D 27/17 A & B	Asia/Pacific Unmanned Aircraft Systems Task Force	That, an Asia/Pacific Unmanned Aircraft Systems Task Force (APUAS/TF) is established in accordance with the Terms of Reference at APANPIRG/27/WP/7 Attachment E to develop regional guidance material that: a) incorporates reference to Aviation System Block Upgrade (ASBU) B1-RPAS implementation; and b) provides uniform expectations for regulators, Air Navigation Service Providers and operators of small UAS on the management of the <u>Air Traffic Management</u> aspects of UAS.	ICAO APAC ICAO APAC APAC States; ICAO HQ	State Letter Conduct APUAS/TF	September 2016 August 2017	State Letter COMPLETED Ref. T 3/10.0 – AP135/16 (ATM) Conduct APUAS/TF COMPLETED First meeting conducted 3-5 April 2017	Ensure Task Force is made aware of the SUAS-AG best practice material on the ICAO website and the A-39 Technical Commission recommendation that the Council should review proposals for ICAO to develop GM to support safe operation of small UAS.

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Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
C 27/18 A & B	Flexible Use Airspace Manual Template	That, Asia/Pacific States are urged to: a) review the model Flexible Use Airspace (FUA) Manual Template at APANPIRG/27/WP/7 Attachment F ; and b) utilize the model template as a guide if the State is not already using a FUA Manual.	ICAO APAC APAC States	State Letter Post FUA Manual Template to APAC website Action in accordance with the Conclusion	September 2016 September 2016 Not specified	State Letter COMPLETED Ref. T 3/10.0 – AP127/16 (ATM) Post FUA Manual Template to APAC website COMPLETED	
C 27/19 A & B	Regional ATM Contingency Plan	That, Version 1.0 of the Asia/Pacific Regional ATM Contingency Plan at APANPIRG/27/WP/7 Attachment G is adopted, and uploaded to the ICAO Asia/Pacific Regional Office Website.	ICAO APAC APAC States	State Letter Post Regional ATM Contingency Plan to APAC website	September 2016 September 2016	State Letter COMPLETED Ref. T 3/10.0 – AP128/16 (ATM) Post Regional ATM Contingency Plan to APAC website COMPLETED	
C 27/20 A & B	Dissolution of RACP/TF	That, having completed Version 1.0 of the Asia/Pacific Regional ATM Contingency Plan, RACP/TF is dissolved and any future revision of the plan and residual tasks arising be managed by ATM/SG.	ICAO APAC	State Letter	September 2016	State Letter COMPLETED Ref. T 3/10.0 – AP128/16 (ATM)	

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Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
C 27/21 A & B	South China Sea Operational Concept	That, the South China Sea (SCS) Operational Concept appended as APANPIRG/27/WP/7 Attachment H is adopted as planning guidance, and posted on the ICAO Regional Office website.	ICAO APAC APAC States	State Letter Post SCS Operational Concept to APAC website Action in accordance with the Conclusion	September 2016 September 2016 Not specified	State Letter COMPLETED Ref. T 3/10.0 – AP126/16 (ATM) Post SCS Operational Concept to APAC website COMPLETED	
C 27/22 A & B	Asia/Pacific Region AIM Information Sharing Website	That, States are urged to register on the Asia/Pacific Region AIM Information Sharing Website at http://aim-tracking.org/ and provide information for the purpose of sharing experience and knowledge of challenges and issues in AIM implementation.	ICAO APAC APAC States	State Letter Action in accordance with the Conclusion	September 2016 Not specified	State Letter COMPLETED Ref. T 3/10.0 – AP125/16 (ATM)	
C 27/23 A & B	Asia/Pacific Region OPADD Update	That, a) Operating Procedures for AIS Dynamic Data (OPADD) Edition 4 provided in APANPIRG/27/WP/7 Attachment J be inserted in the Guidance Manual for Aeronautical Information Services (AIS) in the Asia/Pacific Region, to replace OPADD Edition 3; and b) States review systems and procedures to ensure adherence to OPADD Edition 4.	ICAO APAC APAC States	State Letter Update Guidance Manual with new OPADD Edition 4 and post to APAC website Action in accordance with the Conclusion	September 2016 September 2016 Not specified	State Letter COMPLETED Ref. T 3/10.0 – AP125/16 (ATM) Update Guidance Manual with new OPADD Edition 4 and post to APAC website COMPLETED	

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Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
D 27/24 A & B	Revised AAITF Terms of Reference	That, the revised Terms of Reference of the AIS – AIM Implementation Task Force (AAITF) at APANPIRG/27/WP/7 Attachment L is adopted.	ICAO APAC	State Letter	September 2016	State Letter COMPLETED Ref. T 3/10.0 – AP125/16 (ATM)	
C 27/25 A & B	ELT Inadvertent Activation	That, :noting that 1) Emergency Locator Transmitters (ELTs) remained a significantly disproportionate contributor to false alerts; 2) the next generation ELTs would transmit within three seconds (reducing the time available to cancel an inadvertent activation); 3) cockpit crews and maintenance personnel who activate beacons for testing are a high proportion of false alerts; and 4) all transmitted alert signals are received as an alert and treated as a real distress- States should investigate the reasons for false alerts in their area, and develop mitigation strategies, including education, to reduce the number of false activations.	ICAO APAC APAC States	State Letter Action in accordance with the Conclusion	September 2016 Not specified	State Letter COMPLETED Ref. T 3/10.0 – AP133/16 (ATM)	
C 27/26 A & B	SAR Plan Capability Measurement	That, the SAR Plan Capability Measurement System at APANPIRG/27/WP/7 Attachment O is adopted and States are urged to provide information on their capability with respect to this new performance system.	ICAO APAC APAC States	State Letter Action in accordance with the Conclusion	September 2016 Not specified	State Letter COMPLETED Ref. T 3/10.0 – AP133/16 (ATM)	

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Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
C 27/27 A & B	Asia/Pacific SAR Plan Update	That, the Asia/Pacific SAR Plan V 2.0 at APANPIRG/27/WP/7 Attachment P is adopted and updated on the ICAO Asia/Pacific website.	ICAO APAC	State Letter Post updated Plan on APAC website	September 2016 September 2016	State Letter COMPLETED Ref. T 3/10.0 – AP133/16 (ATM) Post updated Plan on APAC website COMPLETED	
C 27/28 A & B	Guidance Material for Operational Trials in Oceanic Airspace	That, ICAO is invited to develop requirements or guidance material for conducting operational trials in oceanic airspace, addressing the scope and objectives, data collection, notification procedures and safety assessments.	ICAO APAC; ICAO HQ	IOM to HQ	Not Specified	IOM to HQ COMPLETED Ref. T 3/10.0 – AP126/16 (ATM)	This matter has been considered by the Technical Commission of A-39, and is under consideration by the Secretariat.
C 27/29 A & B	Use of Available ADS-B Data for Aircraft Height Monitoring	That, ADS-B data obtained by a Regional Monitoring Agency (RMA) for use in aircraft height-keeping monitoring by means of an ADS-B Height Monitoring System (AHMS), can be sourced from aircraft not subject to an ADS-B related operational approval.	ICAO APAC	State Letter	September 2016	State Letter COMPLETED Ref. T 3/10.0 – AP132/16 (ATM)	Noted.
C 27/30 A & B	Large Height Deviation Guidance Material	That, Asia/Pacific States should utilise the Large Height Deviation (LHD) Guidance Material on LHD taxonomy, reporting form(s), cross-boundary LHD reporting flow, and LHD Point of Contacts (POC) posted on Asia/Pacific Regional Monitoring Agency (RMA) websites.	ICAO APAC APAC States	State Letter Action in accordance with the Conclusion	September 2016 Not specified	State Letter COMPLETED Ref. T 3/10.0 – AP132/16 (ATM)	

APANPIRG/27 Conclusions/Decisions – Action Plan

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
C 27/31 A & B	Reduced Vertical Separation Minimum (RVSM) Approval Expiry	<p>That, Asia/Pacific States should:</p> <p>a) in case they intend to allow RVSM approvals to expire, review their RVSM approvals data sharing procedures to take into account their ability to update RVSM approvals to Regional Monitoring Agencies (RMAs) before they expire; and</p> <p>b) in case they do <u>not</u> allow RVSM approvals to expire, notify the RMA to remove all existing expiration dates (if any), and ensure that any future withdrawals of RVSM approvals are sent to the RMA.</p>	ICAO APAC APAC States	State Letter Action in accordance with the Conclusion	September 2016 Not specified	State Letter COMPLETED Ref. T 3/10.0 – AP132/16 (ATM)	
C 27/32 A & B	Reduced Vertical Separation Minimum (RVSM) Monitoring of Small Fleets	<p>That, Asia/Pacific States should have processes to ensure that single aircraft operators or operators with small fleets are appropriately monitored in terms of Annex 6 requirements, including:</p> <p>a) the provision of guidance material so operators are aware of their responsibilities; and</p> <p>b) regulatory procedures being in place to ensure a State meets its obligation under Annex 6 that RVSM approved aircraft are monitored systematically.</p>	ICAO APAC APAC States	State Letter Action in accordance with the Conclusion	September 2016 Not specified	State Letter COMPLETED Ref. T 3/10.0 – AP132/16 (ATM)	

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Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
D 27/33 A & B	Creation of the Common Aeronautical VPN (CRV) Operations Group (CRV-OG)	That, the Common Aeronautical VPN Operations Group (CRV-OG) is established with Terms of Reference provided in Appendix B to APANPIRG27-WP/9.	ICAO RO	State Letter	September 2016	State Letter COMPLETED Ref.: T 8/2.10 & T 8/10.21: AP137/16 (CNS)	
C 27/34 A & B	Asia and Pacific Flight Procedure Programme (APAC FPP)	That, considering the benefits derived from APAC FPP support, State not participating in the Asia and Pacific Flight Procedure programme (APAC FPP) may consider joining the programme and if yes, coordinate with the ICAO APAC Regional Office.	ICAO APAC APAC States;	State Letter Action in accordance with the conclusion	September 2016	State Letter COMPLETED Ref.: T 8/5.15 AP130/16 (CNS)	
C 27/35 A & B	RNP 2 Implementation Guidance	That, for the implementation of RNP 2: a) States should ensure that all aircraft operators file* the designator 'Z' in item 10 and 'NAV/RNP2' in item 18 to indicate RNP 2 capability until the ICAO flight plan format is amended by ICAO to include RNP 2 (such as by using the flight plan PBN Designator 'P2'); b) ICAO be invited to harmonize the procedure above globally; and c) an equivalence for RNP 2 is recognized if the aircraft is approved for RNAV 2, RNP 1 and GNSS but not approved for RNP2.	ICAO APAC ICAO HQ APAC States	State Letter IOM to HQ Action in accordance with the conclusion	October 16 October 16	State Letter COMPLETED Ref.: T 8/4.13: AP138/16 (CNS)	See paragraph 2.5 in this paper

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Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
C 27/36 A & B	Protection of GNSS signal against jamming	That, considering the reported occurrences of jamming of GNSS signal in APAC Region and their effects on safety of civil aviation operations, States are urged to: 1. protect all the Aeronautical Radio Navigation Service (ARNS) frequencies; 2. take proactive measures to educate public about potential consequences of GNSS spoofing and jamming on civil aviation operations; 3. detect and eliminate jamming through an efficient response mechanism, in particular in the vicinity of aerodromes; and 4. continue to report occurrences of GNSS interference and their effects to ICAO APAC Regional Office.	ICAO APAC APAC States	State Letter Action in accordance with the conclusion	October 2016	State Letter COMPLETED Ref.: T 8/5.10.1:AP071/17 (CNS)	
C 27/37 A & B	Revised Navigation Strategy for the Asia/Pacific Region	That, the revised Navigation Strategy for the Asia/Pacific Region provided in Appendix F to APANPIRG/27-WP/9 is adopted .	APAC States	State Letter	October 2016	State Letter COMPLETED Ref.: T 8/5.1:AP143/16 (CNS)	
C 27/38 A & B	GBAS safety assessment guidance related to anomalous ionospheric conditions	That, the GBAS safety assessment guidance related to anomalous ionospheric conditions provided in Appendix A to APANPIRG/27-WP/23 is adopted and published on the ICAO APAC website.	ICAO APAC	State Letter Publish on web site	November 2016	State Letter COMPLETED Ref.: T 8/5.10.1: AP151/16 (CNS)	

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Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
C 27/39 A & B	SBAS safety assessment guidance related to anomalous ionospheric conditions	That, the SBAS safety assessment guidance related to anomalous ionospheric conditions provided in Appendix H to APANPIRG/27-WP/9 is adopted and published on the ICAO APAC website.	ICAO APAC	State Letter Publish on web site	November 2016	State Letter COMPLETED Ref.: T 8/5.10.1:AP151/16 (CNS)	
C 27/40 A & B	Adoption of GBAS Ionospheric Threat Model for APAC Region and publication in Technical journal	That, the APAC GBAS Ionospheric Threat Model provided in Sections 2.1 to 2.4 of APANPIRG/27-WP/23 is adopted and remains the intellectual property of ICAO and be published in the public domain in selected technical journals with the list of author/contributors as per Appendix J to APANPIRG/27-WP/9.	ICAO APAC	State Letter	January 2017	State Letter COMPLETED Ref.: T 8/5.10.1:AP021/17 (CNS)	

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Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
C 27/41 A & B	Regulators' active support and engagement with ADS-B Implementation and Data sharing	<p>Considering that:-</p> <p>a) any delay in ADS-B deployment and operational use brings risks, liability and additional regulator responsibility as traffic grows in FIRs without surveillance and automated safety nets; and</p> <p>b) the risks in doing nothing whilst continuing to rely on ATC procedures with dependency on voice position reports and lack of automation.</p> <p>States (regulatory authorities) are urged to:</p> <ul style="list-style-type: none"> - actively engage with ANSPs to support the ADS-B implementation, in particular the examination of risks, hazards, mitigations and benefits; and - support the ADS-B data-sharing and collaboration among States to achieve harmonized implementation for maximizing benefits of ADS-B. 	ICAO APAC APAC States	State Letter Action in accordance with the conclusion	October 2016	State Letter COMPLETED Ref.: T 8/10.21:AP145/16 (CNS)	
C 27/42 A & B	AIGD Amendments	That, the consolidated amendment to the AIGD provided in Appendix M to APANPIRG/27-WP/9 is adopted.	ICAO APAC	State Letter	October 2016	State Letter COMPLETED Ref.: T 8/10.21 : AP144/16 (CNS)	
D 27/43 A & B	Dissolution of ADS-B Study and Implementation Task Force	That, the ADS-B SITE, having achieved the objective set out in its Terms of Reference, is dissolved.	ICAO APAC	Notify SURICG	June 2017	Notified SURICG	

APANPIRG/27 Conclusions/Decisions – Action Plan

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
C 27/44 A & B	Revised Surveillance Strategy for the APAC Region	That, the revised surveillance strategy for the APAC Region provided in Appendix N to APANPIRG/27-WP/9 is adopted.	ICAO APAC	State Letter	October 16	State Letter COMPLETED Ref.: T 8/5.1:AP143/16 (CNS)	
C 27/45 A & B	Preparations for International Telecommunication Union (ITU) World Radio communication Conference 2019 (WRC-19)	That, a) States are urged to: - nominate/reconfirm Contact Focal Points for WRC-19 and inform ICAO APAC Office about their contact details; - consider national and international requirements for aeronautical services identified in Agenda of WRC-19 and develop national positions in line with ICAO Position to ensure the availability and protection of aeronautical spectrum; - support ICAO position for WRC-19 at national and international meetings including APT Preparatory Group for WRC-19. b) ICAO be invited to conduct regional preparatory group meetings for WRC-19 in 2017/2018.	ICAO APAC APAC States;	State Letter Action in accordance with the conclusion	November 2016	State Letter COMPLETED Ref.: T 8/10.25 – AP001/17 (CNS)	

APANPIRG/27 Conclusions/Decisions – Action Plan

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
D 27/46 A & B	Revised TOR of Aeronautical Communication Services Implementation Coordination Group – (ACSICG); Performance Base Navigation Implementation Coordination Group (PBNICG) and Surveillance Implementation Coordination Group (SURICG)	That, the Revised Terms of Reference of ACSICG, PBNICG and SURICG provided in Appendix C to APANPIRG/27-WP/9 is adopted.	ICAO APAC	Notify ACSICG, PBNICG and SURICG	June 2017	COMPLETED NOTIFIED	
C 27/47 A & B	Workshop on competency-based training and assessment for the Air Traffic Safety Electronics Personnel (ATSEP)	That, a workshop addressing ATSEP competency-based training and assessment be organized in 2017 (or 2018) in APAC Region.	ICAO APAC; I	Conduct workshop	December 2017	COMPLETED Ref.: T 3/9.9:AP163/16 (ATM)	Noted.

APANPIRG/27 Conclusions/Decisions – Action Plan

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
C 27/48 A & B	Workshop on development and certification procedures for CNS/ATM Systems	That, a) States/Administrations are encouraged to share their experience and best practices on this subject at the next meeting of the CNS SG. b) The CNS SG is requested, in coordination with interested States, industry partners including ICCAIA and CANSO, to consider development of procedures and innovative solutions in meeting the needs identified in WP/21 and related discussions of DGCA Conf/52 & 53. c) ICAO is requested to conduct a workshop in 2017 in association with ICAO Technical Cooperation Bureau and the industry partners on sharing the best practices and development of guidance on this subject.	ICAO APAC; APAC States	Conduct workshop Action in accordance with the conclusion	December 2017	BEING COMPLETED Ref.: T 8/9.6: AP041/17 (CNS) Workshop was conducted in conjunction with CNS SG/21 on 17 th July 2017.	Noted.
C 27/49 A & B	Proposal for amendment to the APAC Regional Air Navigation Plan	That, the proposal for amendment to the APAC Regional Air Navigation Plan, Volume II, Part V – Meteorology, Table MET II-1, Table MET II-2 and Table MET II-3 (provided at Attachment C to APANPIRG/27 WP/10) is endorsed.	ICAO APAC	State Letter (circulation of proposal for amendment of the ANP	September 2016	COMPLETED Endorsed and approved as part of the Proposal for Amendment of the ICAO, Asia and Pacific Regions, Air Navigation Plan, Volume II (Serial No. APAC-II 16/06-AOP/CNS/MET/A IM - Revised)	

APANPIRG/27 Conclusions/Decisions – Action Plan

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
C 27/50 A & B	Expedited availability of extended AMHS	That, States are urged to expedite operational status of extended Air Traffic Services (ATS) message handling system (AMHS) services linking APAC Inter-Regional OPMET Gateways (IROGs) and Regional OPMET Centres (ROCs) to APAC National OPMET Centres (NOCs), and between APAC IROGs and IROGs in neighbouring Regions.	ICAO APAC	State Letter	September 2016	COMPLETED (S/L Ref.: T 4/6.4 – AP094/17 (MET)) ICAO Secretariat decided to wait for outcomes from ACSICG/4 in order to inform States on appropriate strategy to expedite the operational status of extended AMHS	

APANPIRG/27 Conclusions/Decisions – Action Plan

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
C 27/51 A & B	Membership of the MET/R WG from both MET and ATM experts	That, States and international organizations concerned are urged to nominate experts for the Meteorological Requirements Working Group (MET/R WG) from both the MET and ATM fields, and actively participate in the work programme of the MET/R WG.	ICAO APAC APAC States	State Letter Action in accordance with the conclusion	September 2016	COMPLETED Invitation letter (Ref.: T 4/3.2.7:AP036/17 (MET)) included reference to MET/ATM seminar and joint session with ATFM/SG/7. MET/R WG/6 had 43 participants; 28 (65%) in the field of MET and 15 (35%) in ATM. The 2017 MET/ATM seminar was attended by 82 participants; 28 (34%) in the field of MET and 54 (66%) in ATM.	

APANPIRG/27 Conclusions/Decisions – Action Plan

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
C 27/52 A & B	Guidance on SMS SARPs for the meteorological authority and meteorological service provider	That, ICAO is invited to consider providing guidance to facilitate States' uniform interpretation and implementation of the Safety Management System (SMS) related Standards and Recommended Practices (SARPs) with respect to their applicability to the designated meteorological authority and meteorological service provider.	ICAO APAC	APANPIRG/27 Report reviewed by ANC	October 2016	IN PROGRESS To be monitored. The ANC noted APANPIRG Conclusion 27/52. This is a low priority task therefore the METP did not considered it yet.	The Air Navigation Commission is invited to: c) note the comments on the lack of guidance material available on the competency of Meteorological personnel and SMS provisions for MET service providers;
C 27/53 A & B	Endorsement of draft regional guidance on aerodrome tsunami warning	That, the Asia/Pacific Regional Guidance on <i>Aerodrome Tsunami Warnings and their integration into the National Public Safety Plans for Tsunami</i> (provided at APANPIRG/27 IP/24) is endorsed as regional guidance material for use by States.	ICAO APAC	State letter	September 2016	COMPLETED The guidance material is published on ICAO APAC website; State letter to be distributed.	

APANPIRG/27 Conclusions/Decisions – Action Plan

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
C 27/54 A & B	Follow-up on outstanding APANPIRG Conclusions inviting action by ICAO	That, ICAO is requested to clarify the process by which APANPIRG Conclusions (inviting action by ICAO, e.g., proposals to update the Annexes) are adopted into the ICAO work programme and actioned by the appropriate expert groups of ICAO, such as the Panels and specific working groups of the Air Navigation Commission (ANC).	ICAO APAC ICAO HQ	IOM to HQ WP (to APANPIRG/28)	October 2016	COMPLETED Refer to action by ANC	Conclusions and Decisions requiring ICAO HQ action are now tracked and visible available on the ICAO webpages . The METP/2 Meeting held from 17 to 21 Oct. 2016 considered WP/6005 related to the issues on tropical cyclone (TC) advisories and TC SIGMETs as described by APANPIRG/26 Concl. 53. The panel formulated draft Recommendation 8/2 which will propose an Amendment 78 to Annex 3/ Technical Regulations [C.3.1] concerning Table A2-2 Template for advisory message for tropical cyclones and Table A6-1A Template for SIGMET and AIRMET messages.

APANPIRG/27 Conclusions/Decisions – Action Plan

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Responsibility	Deliverable	Target date	Status as of 6 July 2017	Action by ANC
C 27/55 A & B	Strengthening MET and ATM integration	That, the Air Traffic Flow Management Steering Group (ATFM/SG) and the Meteorological Requirements Working Group (MET/R WG) are invited to examine the matters presented in APANPIRG/27 WP/20 and to then make appropriate recommendations as necessary in the form of Draft Conclusions to the ATM and MET Sub-Groups.	ICAO APAC SINGAPORE CANSO IATA [WHO ARE THE ONES THAT PRESENTED WP20]	WP (to ATFM/SG and MET/R WG)	2017	COMPLETED MET/R WG/6 considered that it would be premature for the MET/R WG to formulate any Draft Conclusions concerning the proposed framework for MET-ATM integration (in APANPIRG/27 WP/20) before the publication of the <i>Concept for the Integration of Meteorological Information for ATM</i> , which the second meeting of the ICAO Meteorology Panel (METP/2) decided to publish (currently available at the METP website) and which is based on similar matters addressed in the APANPIRG Conclusion 27/55	
C 27/56 A & B	Update of information in APANPIRG Air Navigation Deficiencies Reporting Form	That, States/Administrations are urged to establish action plan with defined target dates for resolution of deficiencies, update the status on the corrective action taken and report progress in the Reporting Form of Air Navigation Deficiencies identified in ATM/SAR/AIM, AOP, CNS and MET fields as detailed in Appendices A to D of APANPIRG/27 Working Paper 11.	ICAO APAC APAC States	State Letter Action in accordance with the conclusion	October 2016	COMPLETED AN 3/3 — AP150/16 (AGA) dated 17 October 2016	

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