



*International Civil Aviation Organization*

**NINTH MEETING OF THE ASIA/PACIFIC OPMET MANAGEMENT  
TASK FORCE (OPMET/M TF/9)**

Bangkok, Thailand, 21 – 23 March 2011

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**Agenda Item 1b: Review Status of APANPIRG/21 Conclusions**

**REVIEW APANPIRG/21 CONCLUSIONS PROGRESS**

(Prepared by the Secretariat)

**SUMMARY**

This paper provides a status of the progress on APANPIRG/21 Conclusions in the MET field.

This paper relates to:

**Strategic Objectives:**

- A. Safety
- C. Sustainability

**Global Plan Initiatives:**

- GPI-18 Aeronautical information
- GPI-19 Meteorological Systems

**1. INTRODUCTION**

1.1 The Twenty-first Meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/21) held in Bangkok, Thailand from 6-10 September 2010 adopted 9 Conclusions and 1 Decision in the MET field. The full report may be accessed at <http://www.icao.or.th/apanpirg/apanpirg21/apanpirg21rpt.pdf>.

**2. APANPIRG CONCLUSIONS PROGRESS**

2.1 A summary of Conclusions in the MET field and associated progress is provided in **Attachment 1** for discussion, with particular attention to Conclusion 21/49, implementation of OPMET reception. If the meeting has relevant updates, the summary can be updated accordingly.

2.2 Some Conclusions (e.g. 21/10, 21/50, 21/56) will be addressed by the ICAO Air Navigation Commission on 10 March 2011 (note action has been taken with the MET/ATM Seminar since it occurred in early 2011). The working paper related to these APANPIRG/21 Conclusions is provided in **Attachment 2** for information.

**3. ACTION BY THE MEETING**

3.1 The meeting is invited to review the progress on APANPIRG/21 Conclusions in the MET field and provide input if necessary.

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**APANPIRG/21 Conclusions/Decisions – Action Plan**

<b>Conclusion/ Decision No --- Strategic Objective*</b>	<b>Title of Conclusion/Decision</b>	<b>Text of Conclusion/Decision</b>	<b>Follow-up Action</b>	<b>To be initiated by</b>	<b>Deliverable</b>	<b>Target date</b>
<b>C 21/1</b>	<b>States air navigation modernization plans</b>	That, States developing their national air navigation modernization plans, which may have an impact on ICAO SARPs, be urged to share those plans in a timely manner with ICAO for review and assessment, to ensure global compatibility and harmonization.	Notify states	ICAO APAC office	State letter	February 2011
<b>C 21/2</b>	<b>Wildlife hazard reduction</b>	That, States confronting problems of wildlife/bird strike hazard to consider developing and implementing an effective wildlife hazard management plan with procedures to control wildlife at or near airports.	Notify States	ICAO APAC office	State letter	January 2011
<b>C 21/3</b>	<b>Common Set of Performance Metrics for all the ICAO Regions</b>	That, ICAO be invited to:  a) develop a common set of performance metrics for all the ICAO regions so as to facilitate comparative analysis; and  b) establish the globally harmonised guidance on methodology of how to collect the data in order to achieve commonality.	HQ to develop a common set of performance metrics and establish the globally harmonized guidance.	ICAO APAC Office	Issue Form	December 2010

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C 21/4	<b>Regional Guidance material for the implementation of Amendment 1 to PANS-ATM</b>	That, in order for States to clearly understand what is intended in Amendment 1, the ‘ <i>Asia/Pacific Guidance Material for the Implementation of Amendment 1 to the 15<sup>th</sup> Edition of the Procedures for Air Navigation Services – Air Traffic Management (PANS-ATM, Doc 4444)</i> ’ provided in <b>Appendix B</b> to the APANPIRG/21 Report on Agenda Item 3.2 be adopted and published as regional guidance material.	Publish the guidance material	ICAO APAC office	a) State letter  b) Upload on the website	September 2010  September 2010
C 21/5	<b>Strategy for implementation of New flight Plan Format</b>	That, the ‘ <i>Strategy for the Implementation of new ICAO Flight Plan Format and Supporting ATS Messages</i> ’ provided in <b>Appendix C</b> to the APANPIRG/21 Report on Agenda Item 3.2 be adopted and published. States and users to be urged to continue implementation planning based on the strategy.	Publish the strategy	ICAO APAC Office	a) State letter  b) Upload on the website	September 2010  September 2010

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C 21/6	<b>Notification of State Transition Date to the New flight Plan Format</b>	That, in order to keep the ICAO Flight Plan Implementation Tracking System (FITS) website updated, States which have not yet provided data inform the Regional Office of the initial set of data required in the FITS website, such as scheduled date and contact person, by 22 October 2010, and subsequently update the data as required.	Update FITS	States	a) State letter  b) FITS update	September 2010  22 October 2010

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C 21/7	<b>Use of Global database for allocation of five-letter name codes in the Asia and Pacific Regions</b>	<p>That, States which have not yet done so be urged to:</p> <p>a) nominate an ICARD authorized user in order to make use of the ICARD system and improve the process of allocation of Five-Letter Name-Codes (5LNCs);</p> <p>b) review the list of allocated 5LNCs with respect to each States, identify non-used, duplicate or non-ICAO 5LNCs and take actions to rectify the situations; and</p> <p>c) update the ICARD database by adding missing information, e.g. latitude and longitude coordinates, etc; and</p> <p>d) take necessary actions to implement the widespread use of the ICARD system.</p>	<p>a) nominate user</p> <p>b) review 5LNCs</p> <p>c) update ICARD</p> <p>d) implement ICARD</p>	States	<p>a) authorized user</p> <p>b) resolutions of duplication or non-ICAO 5LNC</p> <p>c) ICARD update</p>	<p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p>

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C 21/8	<b>ICAO Asia/Pacific Seamless ATM workshop</b>	That, ICAO be invited to organize the Asia and Pacific Seamless ATM Workshop to be held in early 2011 inviting the APANPIRG member States and other parties of interest in order to foster discussion and action for the Asia and Pacific States in the planning of the future air traffic management system, considering the overall vision for the region for seamless ATM.	Convene Seamless ATM Workshop	ICAO APAC Office	Seamless ATM Workshop	February 2011

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D 21/9	<b>Develop Sub- Regional volcanic Ash Contingency Plan</b>	<p>That,</p> <p>a) in view of the recent volcanic activity in Iceland, the CNS/MET Sub-Group be requested to develop sub-regional volcanic ash contingency plans; and</p> <p>b) urge States to designate appropriate contact points to establish/maintain contacts in the interim period until the sub-regional volcanic ash contingency plans become available.</p>	<p><b>Request CNS/MET SG to develop volcanic ash contingency plans</b></p> <p><b>Request States to provide POC for volcanic ash events</b></p>	<p><b>RO ATM/MET</b></p> <p><b>RO ATM/MET</b></p>	<p><b>Assignment of duties – CNS/MET SG/14 D14/30 to METWARN/I TF and MET/ATM TF</b></p> <p><b>Volcanic ash contingency plans in Region</b></p> <p><b>Contingency contact list</b></p>	<p><b>Assignment of duties July 2010 at CNS/MET SG/14</b></p> <p><b>Feb 2011</b> (waiting on developments of IVATF ATM sub group – e.g. regional contingency plans – exp outcome Jan 2011 – overdue)</p> <p><b>Feb 2011</b> (SL sent 19Oct2010 for reply by 1Dec 2010 – further inputs requested by MET/ATM TF/2 act 2/3 in Jan 2011 – second deadline 1 Apr 2011)</p>



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C 21/10	<b>Transfer FASID Table ATS 2 from ATS to MET</b>	That, ICAO considers the transfer of FASID Table ATS 2, HF radiotelephony VOLMET broadcasts, from ATS to MET, which would involve moving the Tables related to VOLMET broadcasts from the ATS part to the MET part of all ANP/FASID, where applicable.	<b>Request HQ to assess the transfer of FASID Table ATS 2 to MET part</b>	<b>MET/AIM Section</b>	<b>Assessment of FASID Table ATS 2 transfer from ATS to MET</b>	<b>Dec 2011 (assessment) (C/MET-AIM determined issue form not necessary)</b>
D 21/11	<b>ATM/AIS/SAR Task List</b>	That the ATM/AIS/SAR Sub-Group Task List and attachments contained in Appendix D to the APANPIRG Report on Agenda Item 3.2 be adopted as the current work programme for the ATM/AIS/SAR Sub-Group of APANPIRG.	Adopt the task list	ATM/AIS/SAR/ SG/21	Task List	June 2011
C 21/12	<b>Convening of the Seamless- ATM Ad Hoc meeting</b>	That, while recognizing the seamless ATM needs to be addressed in a holistic manner, ICAO Regional Office be invited to <b>organize a</b> seamless ATM Ad Hoc working group meeting as soon as possible.	Convene the Seamless ATM Ad-Hoc Meeting	ICAO APAC Office	Seamless ATM Ad-Hoc Meeting	As soon as possible but not later than February 2011

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C 21/13	<b>Coordination for the Transition to the NEW Flight Plan Format among States</b>	<p>That, as the global and the regional harmonization is crucial in implementing the NEW flight plan format by 15 November 2012, States start close coordination soon with adjacent States/FIRs on transition about, but not limited to:</p> <ul style="list-style-type: none"> <li>i) difference of timing for transition between the States/FIRs;</li> <li>ii) operations in the mixed environment of PRESENT and NEW;</li> <li>iii) operational transition for AIDC; and</li> <li>iv) procedures when ATS messages are not processed properly.</li> </ul>	Start coordination	ICAO APAC Office  States	State letter  Coordination	March 2011

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C 21/14	<b>Enhancement of the Global Coordination for Implementation of the NEW Flight Plan Format</b>	<p>That, in light of the varying degree of States in implementing the NEW flight plan format, ICAO:</p> <p>i) urge all the States, including those outside the Asia/Pacific Region, to record their readiness in the FITS;</p> <p>ii) take action to ensure that any States or ICAO regions not use non-standard local procedures; and</p> <p>iii) ensure appropriate coordination take place between ICAO regional planning and implementation groups (PIRGs) to address implementation issues.</p>	Enhance global coordination	ICAO HQ	Issue Form	April 2011
C 21/15	<b>Responsibility Area of China RMA</b>	That, the China RMA be approved as an APANPIRG Asia/Pacific RVSM Regional Monitoring Agency with responsibility for all RVSM airspaces in China FIRs, and the Pyongyang FIR.	Approve China RMA for the expansion of responsibility	ICAO APAC Office	State letter to China and MAAR	September 2010

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D 21/16	<b>ATNICG Subject/Tasks List</b>	That, the updated Subject/Tasks List placed at Appendix A to the Report on Agenda Item 3.4 be adopted.	<b>Notify ATNICG /8 and ATNICG/6</b>	<b>ICAO APAC Office</b>	<b>ATNICG WG and ATNICG informed and paper prepared</b>	<b>September 2010 May 2011</b>
C 21/17	<b>ICAO Doc 9896 clarifications</b>	<p>That ICAO be invited to provide clarifications on the following issues related to ATN/AMHS implementation.</p> <p>i) VoIP should be limited to ATS ground service since the ICAO approach is to encourage data communication such as CPDLC. Furthermore, the VoIP performance is network dependent and thus performance acceptance is varied;</p> <p>ii) how the States will come to know about updates on the relevant RFCs; and</p> <p>iii) IPv6 address structure.</p>	<b>Prepare Issue Form</b>	<b>ICAO APAC Office</b>	<b>Issue form sent to ICAO HQ</b>	<b>December 2010</b>
D 21/18	<b>Regional ATN/AMHS Implementation Planner</b>	That, the Asia/Pacific Regional Implementation Planner Placed at Appendix B to the Report on Agenda Item 3.4 be adopted to report ATN/AMHS implementation progress in the region.	<b>Notify ATNICG WG and ATNICG</b>	<b>ICAO APAC Office</b>	<b>ATNICG WG and ATNICG informed</b>	<b>September 2010 May 2011</b>

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<b>C 21/19</b>	<b>AMHS connectivity with ICAO MID region</b>	That Singapore, Pakistan and India take initiative in transiting to AMHS connectivity with Bahrain, Kuwait, Iran and Oman respectively at the earliest.	<b>Remind States concerned to take initiative</b>	<b>ICAO APAC Office</b>  <b>States concerned</b>	<b>Stated reminded and initiative by States taken</b>	<b>April 2011</b>
<b>C 21/20</b>	<b>Strategy for Implementation of Aeronautical Telecommunication Network (ATN) in the Asia/Pacific Region</b>	That, the document provided at Appendix C to the Report on Agenda Item 3.4 be adopted as Strategy for Implementation of Aeronautical Telecommunication Network (ATN) in the Asia/Pacific Region.	<b>Notify States</b>	<b>ICAO APAC Office</b>	<b>State Letter</b>  <b>Available on the website</b>	<b>November 2010</b>
<b>C 21/21</b>	<b>AMC Information Form</b>	That, States be invited to provide data for AMC in respect of their Administration in the format provided at Appendix D to the report on agenda item 3.4.	<b>Notify States</b>	<b>ICAO APAC Office</b>	<b>State Letter</b>	<b>November 2010</b>

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C 21/22	Asia/Pacific ATN Interim Addressing Plan	<p>That,</p> <p>i) the proposed IPv6 and IPv4 addressing schemes be submitted to ICAO and ICAO be requested to consider a global IPv6 addressing scheme for ground-ground communication;</p> <p>ii) the proposed IPv4 address plan placed at Appendix E to this report on agenda item 3.4 be adopted to enable the Asia/Pacific ATN ground IPS network implementation to proceed using IPv4 in the interim with minimum delay; and</p> <p>iii) The Asia/Pacific region transition to IPv6 once the above issues have been resolved.</p>	Prepare Issue Form and notify the States	ICAO APAC Office	Issue Form sent to HQ and State letter	March 2011

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C 21/23	<b>Amendment/update of Regional ATN/AMHS Guidance Documents</b>	<p>That, the following amended Regional Guidance Documents for ATN/AMHS implementation be adopted and distributed to the States.</p> <p>a) the amended Asia/Pacific ATN Network Service Access Point (NSAP) Addressing Plan for Asia/Pacific Region as provided in the Appendix F to the Report on Agenda Item 3.4;</p> <p>b) the Test Procedure for ATN Router Connection Test, Annex C to Asia/Pacific AMHS Manual as provided in the Appendix G to the Report on Agenda Item 3.4;</p> <p>c) “Asia/Pacific ATN Security Guidance Document” to replace the existing Asia/Pacific ATN Security Guidance Document, Draft First Edition as provided in Appendix H to the Report on Agenda Item 3.4; and</p> <p>d) the phased testing procedure to transit from AFTN routing to MTA-to-any-MTA routing to be incorporated in the AMHS Manual as provided in Appendix I to the Report on Agenda Item 3.4.</p>	Notify States	ICAO APAC Office	<p>State Letter and</p> <p>Updated guidance material available on the website</p>	November 2010

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<b>C 21/24</b>	<b>Points for Proposed Defect Report (PDR) (Amendment Proposal) raised in the region</b>	That, States be invited to present their ATN/AMHS implementation related Points for Proposed Defect Report (PDR) (Amendment Proposal) to the ICAO APAC Office. These points will be presented to the ATNICG/ATNICG Working Group (whichever is scheduled earlier) by the Secretariat for endorsement, so that these points, along with the ATNICG/ATNICG WG recommendations can be forwarded to ACP WG – M Secretariat through ICAO APAC Office	<b>Notify States</b>	<b>ICAO APAC Office</b>	<b>State Letter and Procedure is followed</b>	<b>December 2010</b>
<b>C 21/25</b>	<b>Japan/Russia AFTN Routing Change</b>	That, ICAO be requested to coordinate with Europe Region for updating AFTN routing directory and consequential change to the APAC AFTN routing directory.	<b>Coordinate with ICAO European Office for the change</b>	<b>ICAO APAC Office</b>	<b>Coordination carried out and Routing Directory updated</b>	<b>March 2011</b>



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C 21/26	<b>Pan-Regional ICD for AIDC</b>	That, ICAO Regional Office inform the NATSPG that the proposed title “Pan-regional ICD for Oceanic AIDC” is unacceptable as the ICD for AIDC is applicable for use by all ATS and ATM facilities in both oceanic, and continental areas within the Asia Pacific Region; and that the document should be titled as “Pan-Regional ICD for AIDC.	<b>Inform NATSPG through EUR Office</b>	<b>ICAO APAC Office</b>	<b>ICAO ERU Office and NATSPG informed</b>	<b>November 2011</b>
C 21/27	<b>Inter-regional ad hoc SATCOM Task Force</b>	That,  a) the Terms of Reference of the inter-regional ad hoc Satellite Voice Communication (SATCOM) Task Force adopted by NAT System Planning Group as provided at Appendix J to the Report on Agenda Item 3.4 be endorsed; and  b) the outcome of the task force should be coordinated with the CNS/MET Sub-group of APANPIRG.	<b>Inform ICAO EUR Office and CNS/MET SG</b>	<b>ICAO APAC Office</b>	<b>ICAO EUR Office and  CNS/MET SG informed</b>	<b>December 2010  July 2011</b>

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<b>C 21/28</b>	<b>Regional HF Management Guidance Material</b>	That, the HF Management Guidance Material for the South Pacific as provided in the Appendix K to the Report on Agenda Item 3.4 be adopted as Part One of Asia/Pacific Regional Guidance Material for HF Management.	<b>Notify States</b>	<b>ICAO APAC Office</b>	<b>State Letter and GM on the website</b>	<b>December 2011</b>
<b>D 21/29</b>	<b>PBN Task Force Tasks List</b>	That, the PBN Task Force Tasks List provided at Appendix L to the Report on Agenda Item 3.4 be adopted.	<b>Notify PBN TF</b>	<b>ICAO APAC Office</b>	<b>Paper prepared and PBNTF informed</b>	<b>March 2011</b>
<b>C 21/30</b>	<b>Limitation of Older Generation FMS</b>	That, ICAO (IFPP, PBNSG) be invited to note, once again, the importance of the limitation of older generation FMS in storing multiple procedures for the same type of navigation system for a runway. This limitation occurs when pilots attempt to select a specific approach that is not stored in the FMS navigation database. ICAO is requested to consider establishing additional guidance, supplementing existing PANS provisions and to explore solution(s).	<b>Prepare Issue Form</b>	<b>ICAO APAC Office</b>	<b>Issue Form sent to HQ</b>	<b>October 2010</b>
<b>C 21/31</b>	<b>Revised APAC Regional PBN Implementation Plan</b>	That, the revised APAC Regional PBN Implementation Plan Version 2.0 provided in Appendix M to the Report on Agenda Item 3.4 be adopted.	<b>Notify States</b>	<b>ICAO APAC Office</b>	<b>State Letter</b>	<b>October 2010</b>

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<b>C 21/32</b>	<b>Develop State PBN Implementation Plan</b>	That, the States, which have not developed their State PBN Implementation Plans so far, be urged to develop the plan in accordance with the Asia/Pacific Regional PBN Implementation Plan at the earliest and advise the Regional Office of the impediments in the implementation of PBN.	<b>Urge State and identify impediments</b>	<b>ICAO APAC Office  States</b>	<b>State Letter  Impediments in the implementation of PBN informed</b>	<b>March 2011</b>
<b>C 21/33</b>	<b>Aircraft Equipage Requirements</b>	That, ICAO provides guidance on aircraft that do not have a lateral and vertical readout on the navigation display, but do display the lateral and vertical profile on the navigation equipment, which could be considered as an alternate means of compliance, if supplemented by appropriate flight crew training for RNP value of 0.3 RNP or greater.	<b>Prepare Issue Form</b>	<b>ICAO APAC Office</b>	<b>Issue Form sent to ICAO HQ and Required guidance provided</b>	<b>March 2011</b>
<b>D 21/34</b>	<b>PBN Task Force continuation</b>	That, the PBN Task Force be continued.	<b>Notify PBN TF</b>	<b>ICAO APAC Office</b>	<b>Paper prepared and the Task Force informed</b>	<b>March 2011</b>
<b>C 21/35</b>	<b>Slow Progress of PBN Implementation</b>	That, ICAO highlights the slow progress and impediments in PBN implementation at the upcoming 47 <sup>th</sup> DGCA Conference for their support to expedite implementation.	<b>Prepare paper for DGCA Conf/47</b>	<b>ICAO APAC Office</b>	<b>Paper prepared and issues highlighted</b>	<b>October 2010</b>

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<b>C 21/36</b>	<b>Progress of GNSS Implementation &amp; Awareness of GNSS Manual</b>	That, ICAO  a) highlight the slow progress of GNSS implementation in the aviation field at forums such as the coming 47 <sup>th</sup> DGCA Conference in October in Macao, China; and  b) raise the awareness of existence of the GNSS Manual among the aviation community.	<b>Prepare paper for DGCA Conf/47</b>	<b>ICAO APAC Office</b>	<b>Paper prepared and issues highlighted</b>	<b>October 2010</b>
<b>D 21/37</b>	<b>Subject/Tasks List of ADS-B Study and Implementation Task Force</b>	That, the Subject/Tasks List for ADS-B Study and Implementation Task Force provided in Appendix N to the Report on Agenda Item 3.4 be adopted.	<b>Notify ADS-B SITF</b>	<b>ICAO APAC Office</b>	<b>Paper prepared and the Task Force informed</b>	<b>April 2011</b>
<b>C 21/38</b>	<b>Guidance Material on Processing and Display of ADS-B Tracks on Air Traffic Controller Positions</b>	That, the Processing and Display of ADS-B Tracks on Air Traffic Controller positions provided in Appendix O to the Report on Agenda Item 3.4 be adopted.	<b>Notify States</b>	<b>ICAO APAC Office</b>	<b>State Letter  The GM available on the Website</b>	<b>December 2010</b>

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Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date
C 21/39	<b>Template for promulgation of ADS-B Avionics Equipage Requirements</b>	<p>That, based on APANPIRG Conclusion 20/54, States intending to implement ADS-B based surveillance service for a defined airspace and having not published regulations be urged to promulgate mandating rule for ADS-B Avionics Equipage Requirements as soon as possible using the following template:</p> <p><i>On and after dd/mm/yyyy, if an aircraft operates on airways (insert routes).....at or above FLXXX.....(or in defined airspace boundaries ..... at or above FLXXX):</i></p> <p><i>a) the aircraft must carry serviceable ADS-B transmitting equipment that has been certificated as meeting EASA AMC 20-24, or meets the equipment configuration standards in Appendix XI of Civil Aviation Order 20.18 of the Civil Aviation Safety Authority of Australia; and</i></p> <p><i>b) the aircraft operator must have the relevant operational approval from the State of Registry.</i></p>	Notify States	ICAO APAC Office	State Letter	November 2010

Attachment 1 to WP/4 of the OPMET/M TF/9 meeting

Derived from Attachment 3 to the APANPIRG/21 Report  
 APANPIRG/21 Conclusions/Decisions – Action Plan --- updated 8 Feb 2011

<b>Conclusion/ Decision No --- Strategic Objective*</b>	<b>Title of Conclusion/Decision</b>	<b>Text of Conclusion/Decision</b>	<b>Follow-up Action</b>	<b>To be initiated by</b>	<b>Deliverable</b>	<b>Target date</b>
<b>C 21/40</b>	<b>Guidelines for Airworthiness and Operational Approval for ADS-B Avionics Equipage</b>	That, States be advised to use the guidelines provided in Appendix P to the Report on Agenda Item 3.4 for Airworthiness and Operational Approval for ADS-B Out Avionics Equipage.	<b>Notify States</b>	<b>ICAO APAC Office</b>	<b>States informed</b>	<b>January 2011</b>
<b>C 21/41</b>	<b>Revised Regional Surveillance Strategy for Asia and Pacific Regions</b>	That, the revised Regional surveillance strategy for Asia and Pacific Regions provided in Appendix Q to the Report be adopted.	<b>Notify States</b>	<b>ICAO APAC Office</b>	<b>State Letter  And revised strategy available on the website</b>	<b>January 2011</b>

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Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date
C 21/42	<b>Rule on Misleading ADS-B Transmissions</b>	<p>That, States where ADS-B may be used, even voluntarily, promulgate rule for ADS-B Avionics Equipage Requirements consider publishing additional provisions for misleading ADS-B transmission as follows:</p> <p><i>After &lt;insert earliest date that ADS-B may be used for any relevant operational purpose&gt; if an aircraft carries ADS-B transmitting equipment which does not comply with</i></p> <p><i>a) EASA AMC 20-24, or</i>  <i>b) the equipment configuration standards in Appendix XI of Civil Aviation Order 20.18 of the Civil Aviation Safety Authority of Australia.</i></p> <p><i>the aircraft must not fly unless the equipment is:</i></p> <p><i>(a) deactivated; or</i>  <i>(b) set to transmit only a value of zero for the NUCp or NIC.</i></p>	Notify States	ICAO APAC Office	State Letter	November 2010

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 APANPIRG/21 Conclusions/Decisions – Action Plan --- updated 8 Feb 2011

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date
		<p><i>Note:</i></p> <ol style="list-style-type: none"> <li><i>1. It is considered equivalent to deactivation if NUCp or NIC is set to continually transmit only a value of zero.</i></li> <li><i>2. Regulators should take appropriate action to ensure that such regulations are complied with.</i></li> <li><i>3. ATC systems should discard ADS-B data when NUC or NIC=0</i></li> </ol>				



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Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date
C 21/43	<b>Preparation for WRC – 2012</b>	That, a) States be urged to have the designated contact person closely involved in the preparatory work for WRC – 2012 at the national level in close coordination with the contact points designated by respective telecommunication regulators;  b) Make necessary arrangements for the designated contact persons to attend the APT APG meetings and WRC – 2012 Conference to protect aviation interests; and  c) Reference to APANPIRG Conclusions 19/41, 20/58 and DGCA Conference Action Item 46/8 may be used to support these efforts.	<b>Notify States and necessary arrangement</b>	<b>ICAO APAC Office and States</b>	<b>States Letter</b>  <b>Take necessary action to support ICAO Position for WRC2012</b>	<b>July 2012</b>
C 21/44	<b>Visibility of ICAO Position on WRC – 2012 Agenda Items</b>	That, ICAO be urged to improve visibility to ICAO Position on WRC-2012 Agenda Items of critical interest to civil aviation on the ICAO website.	<b>Prepare Issue Form</b>	<b>ICAO APAC Office</b>	<b>Visibility of ICAO position for WRC2012 on ICAO Website</b>	<b>July 2012</b>

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Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date
C 21/45	<b>Transition to WAFS Internet File Service (WIFS) from ISCS-G2</b>	<p>That,</p> <p>a) The ISCS Provider State will work with States, in cooperation with the ICAO Secretariat and Asia and Pacific Regional Office, to assist States with the implementation of WIFS by March 2012;</p> <p>b) States to update Points of Contact in Appendix R to this Report and submit the WIFS registration form; and</p> <p>c) ICAO Asia and Pacific Regional Office to request States to advise on the status of their implementation of WIFS by March 2011.</p> <p><i>Note 1: The data currently being provided by ISCS satellite service will only be available via the WAFS Internet File Service (WIFS) after June 30 2012.</i></p> <p><i>Note 2: WIFS commenced operation in May 2010.</i></p>	<p><b>Assist in WIFS implementation</b></p> <p><b>Update POC of ISCS/WIFS users and encourage WIFS registration</b></p> <p><b>Inquire with States on status of WIFS implementation</b></p>	<p><b>ISCS Provider State</b></p> <p><b>RO MET</b></p> <p><b>RO MET</b></p>	<p><b>Regional Implementation of WIFS</b></p> <p><b>State letter</b></p> <p><b>State letter</b></p>	<p><b>Mar 2012</b> (ongoing – Samoa recently inquired and forwarded registration info)</p> <p><b>COMPLETE</b> (SL – T 4/8.4 &amp; T 4/8.5 :AP149/10 (MET) sent 27Sep2010 for reply 15Nov2010)</p> <p><b>COMPLETE</b> (SL – T 4/8.4 &amp; T 4/8.5 :AP149/10 (MET) sent 27Sep2010 for reply 15Nov2010)</p>

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Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date
C 21/46	<b>Improvements to WAFS Implementation</b>	<p>That, the WAFSOPSG is invited to discuss and consider the following improvement measures in WAFS implementation:</p> <p>a) the WAFS Provider States inform users in advance about forthcoming changes to the contents of the WAFS forecasts; and</p> <p>b) further guidance be provided regarding the specific actions to be taken by the MET service providers and all relevant end users of WAFS upon receiving the administrative message.</p> <p><i>Note: Guidance should also include any requirement for a user State to generate its own administrative message for a product affected by a received administrative message.</i></p>	<p><b>Determine changes, if necessary, to the WAFS change bulletin notice</b></p> <p><b>Determine further guidance, if necessary, for users of WAFS administrative messages</b></p>	<p><b>WAFSOPSG/6 (March 2011)</b></p> <p><b>WAFSOPSG/6 (March 2011)</b></p>	<p><b>Update WAFS bulletin notice, if required</b></p> <p><b>Update guidance on WAFS administrative messages, if required</b></p>	<p><b>July 2011</b></p> <p><b>July 2011</b></p>
C 21/47	<b>Improvements to VA and TC advisories</b>	<p>That,</p> <p>The IAVWOPSG consider including the file name of the graphical advisories, if issued, under “Remarks” of the corresponding textual advisories.</p>	<b>Determine if link between graphical and textual advisories is necessary</b>	<b>IAVWOPSG/6 (September 2011)</b>	<b>Update relevant standards (Am 76 to Annex 3) and/or guidance material if necessary</b>	<b>2013</b>

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Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date
C 21/48	Update of SADIS and ISCS User Guide	<p>That, the SADISOPSG and WAFSOPSG consider the need to update the SADIS and ISCS User Guides by aligning with regional Meteorological Watch Offices requirements (Regional FASID Tables)</p> <p><i>Note: To achieve this, the following steps should be taken in time for the regional SIGMET advisory trial (1 April 2011)</i></p> <p>a) <i>Regional amendment proposals on FASID Table MET 1B;</i></p> <p>b) <i>Develop global database based on Regional requirements in a); and</i></p> <p>c) <i>Consider global database on SIGMET requirements for use in SADIS and ISCS User Guides</i></p>	<p><b>Amendment Proposals to Tables in the Regions, where necessary</b></p> <p><b>HQ IT develop global database of FASID Table MET 1B</b></p> <p><b>Incorporate SIGMET requirements in SADIS Users Guide (as a link to the global database)</b></p>	<p><b>RO MET</b></p> <p><b>MET/AIM (HQ)</b></p> <p><b>WAFSOPSG/6 (March 2011)</b></p> <p><b>SADISOPSG/15 (May 2011)</b></p>	<p><b>Up-to-date FASID Tables MET 1B for all Regions</b></p> <p><b>Global MWO database</b></p> <p><b>Provide link to global database for SIGMET requirements (may still maintain snapshot of reception)</b></p>	<p><b>COMPLETE</b></p> <p><b>Mar 2011</b> <i>(all regions submitted latest version table in excel format to HQ in Nov 2010, except for NAM)</i></p> <p><b>Apr 2011</b></p>

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Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date
C 21/49	<b>Implementation of OPMET reception</b>	<p>a) IATA be invited to conduct another period of OPMET monitoring for reception of METAR and TAF at SADIS and ISCS and provide the Regional Office with a list of AOP and non-AOP aerodromes by State whose OPMET data are not available at SADIS and/or ISCS as well as a list of AOP aerodromes by State that distribute FC TAF; and</p> <p>b) the Regional Office urge States containing AOP aerodromes whose OPMET is not received at SADIS and/or ISCS to comply to the Regional Air Navigation Plan (RANP); and</p> <p>c) the Regional Office encourage States containing non-AOP aerodromes whose OPMET is not received at SADIS/ISCS to provide OPMET data as already agreed upon; and</p> <p>d) the Regional Office inform States that FC TAF is no longer disseminated internationally in accordance with the RANP; and</p> <p>e) the slower transmission times and missing OPMET data associated with ISCS in relation to SADIS be investigated by RODBs Tokyo and Singapore;</p>	<p><b>IATA to monitor OPMET availability at SADIS/ISCS</b></p> <p><b>Inform States</b></p> <p><b>Inform States</b></p> <p><b>Inform States</b></p> <p><b>Investigate SADIS/ISCS transmission time differences</b></p>	<p><b>IATA</b></p> <p><b>RO MET</b></p> <p><b>RO MET</b></p> <p><b>RO MET</b></p> <p><b>RODBs Singapore &amp; Tokyo</b></p>	<p><b>List of aerodromes by State whose OPMET not received at SADIS/ISCS</b></p> <p><b>SL</b></p> <p><b>SL</b></p> <p><b>SL</b></p> <p><b>Reduce OPMET transmission time to ISCS</b></p>	<p><b>Feb 2011</b> (coordinated with IATA and agreed monitoring time period of late Jan/early Feb 2011)</p> <p><b>Apr 2011</b></p> <p><b>Apr 2011</b></p> <p><b>Apr 2011</b></p> <p><b>May 2011</b> (coordinated with RODBs Sing/Tokyo and agreed to determine time differences, if any, of OPMET reception at Lon/Wash before uplink in Feb 2011 – results to OPMET/M TF/9 meeting)</p>

Attachment 1 to WP/4 of the OPMET/M TF/9 meeting

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 APANPIRG/21 Conclusions/Decisions – Action Plan --- updated 8 Feb 2011

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date
		<p>f) the Regional Office inform States of OPMET observation, filing and transmission times as described in the ROBEX Handbook section 7.5; and</p> <p>g) the Regional Office inform States of OPMET availability and regularity as defined in the Regional Air Navigation Plan and ROBEX Handbook.</p> <p><i>Note: this Conclusion is intended to assist in achieving the OPMET data availability goals (95% AOP aerodromes and 90% non-AOP aerodromes) described in APANPIRG/20 Conclusions 20/63 and 20/64)</i></p>	<p><b>Inform States</b></p> <p><b>Inform States</b></p>	<p><b>RO MET</b></p> <p><b>RO MET</b></p>	<p><b>SL</b></p> <p><b>SL</b></p>	<p><b>May 2011</b></p> <p><b>May 2011</b></p>
<p><b>C 21/50</b></p>	<p><b>MET/ATM Seminar</b></p>	<p>That, ICAO in coordination with WMO conduct a MET/ATM Seminar in early 2011.</p> <p><i>Note: This draft Conclusion reinstates APANPIRG Conclusion 19/53.</i></p>	<p><b>HQ consider inviting WMO as partner in MET/ATM Seminar</b></p>	<p><b>MET/AIM Section</b></p>	<p><b>Invitation Letter</b></p>	<p><b>COMPLETE</b></p> <p><b>Seminar held 24-26 Jan 2011</b></p>

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<b>Conclusion/ Decision No --- Strategic Objective*</b>	<b>Title of Conclusion/Decision</b>	<b>Text of Conclusion/Decision</b>	<b>Follow-up Action</b>	<b>To be initiated by</b>	<b>Deliverable</b>	<b>Target date</b>
<b>D 21/51</b>	<b>Performance Framework Forms (PFFs)</b>	That, updated performance Framework Forms (PFFs) of CNS and MET fields as contained in Appendix S to the report on agenda item 3.4 be adopted.	<b>Notify CNS/MET SG</b>	<b>ICAO APAC office</b>	<b>Paper prepared and SG notified</b>	<b>July 2011</b>
<b>D 21/52</b>	<b>Updated Subject/Tasks List of the CNS/MET Sub-group</b>	That, the updated Subject/Tasks List of the CNS/MET Sub-group provided in Appendix U to the report on agenda item 3.4 be adopted.	<b>Notify CNS/MET SG</b>	<b>ICAO APAC office</b>	<b>Paper prepared and SG notified</b>	<b>July 2011</b>

Attachment 1 to WP/4 of the OPMET/M TF/9 meeting

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 APANPIRG/21 Conclusions/Decisions – Action Plan --- updated 8 Feb 2011

Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date
C 21/53	<b>Elimination of ATM Air Navigation Deficiencies</b>	That, States concerned a) be urged to take urgent actions to correct the deficiencies in the ATM/AIS/SAR fields identified in Attachment A to the Report on Agenda Item 4 ; b) notify details of the problems/difficulties to the Regional Office; and c) designate a point of contact in each State to deal with deficiencies and provide details to the Regional Office by 22 October 2010.	a) take actions to correct deficiencies b) notify details of difficulty c) designate point of contact	States	a) less deficiencies b) remedial actions c) point of contact	Ongoing Ongoing 22 October 2010
C 21/54	<b>Aerodrome deficiencies</b>	That, the States concerned be urged to validate and provide corrective action plan for the elimination of aerodrome deficiencies identified in Appendix B1 to the Report on Agenda item 4 of APANPIRG/21;	<b>Notify concerned States</b>	<b>ICAO APAC office</b>	<b>State letter</b>	<b>February 2011</b>
C 21/55	<b>Removal of the APANPIRG Air Navigation Deficiency AP-MET-13</b>	That, the air navigation deficiency AP-MET-13 be removed from the APANPIRG air navigation deficiencies list.	<b>Remove deficiency from database</b>	<b>RO AGA</b>	<b>Updated deficiency database</b>	<b>COMPLETE</b>



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Conclusion/ Decision No --- Strategic Objective*	Title of Conclusion/Decision	Text of Conclusion/Decision	Follow-up Action	To be initiated by	Deliverable	Target date
C 21/56	<b>Cost Recovery Guidance Material Update</b>	That, ICAO be invited to consider updating the cost recovery guidance material that would take into account States whose air traffic volume is not sufficient in obtaining the cost recovery for the necessary MET services required in Annex 3 and consider shared services in airspace blocks that are based on the number flights needed in obtaining the necessary cost for the services required for that airspace block.	<b>HQ to consider updating cost recovery guidance material</b>	<b>MET/AIM Section</b>	<b>Updated Guidance Material (Doc 9161) if deemed necessary by ATB</b>	<b>2012</b> (C-MET/AIM determined issue form not necessary)
D 21/57	<b>APANPIRG Contributory Bodies Structure Review Task Force (ABSRTF)</b>	That,  a) APANPIRG Contributory Bodies Structure Review Task Force with members consisting of Sub-group chairpersons, vice-chairpersons and voluntary members nominated by States be established; and  b) In coordination with ICAO Regional Office, the Task Force undertakes a review of the Terms of Reference and activities of the APANPIRG contributory bodies and proposes rationalization of their structures to APANPIRG/22 to meet the changing environment.	<b>Notify States to nominate voluntary members.</b>  <b>Establish ABSRTF</b>  <b>Review structure and develop proposals for contributory bodies</b>	<b>ICAO APAC Office</b>    <b>ABSRTF</b>	<b>State Letter</b>    <b>ABSRTF established</b>  <b>Paper prepared with proposals.</b>	<b>November 2010</b>    <b>February 2011</b>    <b>June 2011</b>

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<b>Conclusion/ Decision No --- Strategic Objective*</b>	<b>Title of Conclusion/Decision</b>	<b>Text of Conclusion/Decision</b>	<b>Follow-up Action</b>	<b>To be initiated by</b>	<b>Deliverable</b>	<b>Target date</b>
<b>C 21/58</b>	<b>Establishment of RASGs – Consequent revision to TOR of APANPIRG</b>	That meeting adopt the revised terms of reference of APANPIRG as shown in the Appendix A to the Report on Agenda Item 6.	<b>Notify States</b>	<b>ICAO APAC office</b>	<b>State letter</b>	<b>March 2011</b>
<b>C 21/59</b>	<b>Development of New RANP</b>	That, ICAO be invited to review the regional air navigation plan structure, processes and contents to incorporate them in to e-ANP and expedite its provision for use.	<b>Prepare Issue Form</b>	<b>ICAO APAC Office</b>	<b>Issue form prepared</b>	<b>December 2010</b>

\* **Note:** ICAO has established the following Strategic Objectives for the period 2005-2010:

**A: Safety** - Enhance global civil aviation safety; **B: Security** - Enhance global civil aviation security; **C: Environmental Protection** - Minimize the adverse effect of global civil aviation on the environment; **D: Efficiency** - Enhance the efficiency of aviation operations; **E: Continuity** - Maintain the continuity of aviation operations; **F: Rule of Law** - Strengthen law governing international civil aviation.



International Civil Aviation Organization

AN-WP/8535  
31/01/11**WORKING PAPER****AIR NAVIGATION COMMISSION****AN Programme D3-FWK-IPP: Air Navigation Integrated Programme (ANIP)**

**REVIEW OF THE REPORT OF THE TWENTY-FIRST MEETING OF  
THE ASIA/PAC AIR NAVIGATION PLANNING AND  
IMPLEMENTATION REGIONAL GROUP (APANPIRG/21)  
(Item No. 18614)**

(Presented by the Chairperson of the ANC Working Group  
of the Whole for Strategic Review and Planning)

**SUMMARY**

The ANC Working Group of the Whole for Strategic Review and Planning hereby presents its review of the report of the APANPIRG/21 Meeting.

Action by the Air Navigation Commission is in paragraph 3.

**COORDINATION**

AGA, ATM, CNS/AIRS, MET/AIM, ATB and Asia and Pacific Regional Office

**REFERENCES**

All Air Navigation Plans, Basic ANP  
and FASID  
Doc 9161, *Manual on Air Navigation  
Services Economics*  
\*APANPIRG/21 Report

This working paper relates to Strategic Objectives A and D (2005-2010)

\*Principal reference

**1. INTRODUCTION**

1.1 The twenty-first meeting of the ASIA/PAC Air Navigation Planning and Implementation Regional Group (APANPIRG/21) was held in Bangkok, Thailand, from 6 to 10 September 2010. It was attended by 114 participants from twenty-three States and three international organizations. The Air Navigation Commission referred the APANPIRG/21 Report to its Working Group of the Whole for Strategic Review and Planning (WG/SRP) for review. The WG/SRP reviewed the report on 30 November 2010. Appendix A to this working paper presents the executive summary of the outcome of the APANPIRG/21 Meeting. The analysis of the conclusions and decisions is discussed in Appendix B. Action to be taken by the Commission on selected conclusions and decisions is outlined in Appendix C,

which has been formatted to link the conclusions with the 2005-2010 Strategic Objectives of the Organization which were in place at the time of the meeting. All other follow-up action will be taken by the Secretary General in accordance with established practice.

## 2. DISCUSSION

2.1 The WG/SRP reviewed the APANPIRG/21 Report in conjunction with selected conclusions and decisions that require the Commission and/or Council action, including those that may impact on other regions. In reviewing the report of the meeting, the WG/SRP noted that APANPIRG, with the assistance of its contributory bodies, had examined air navigation matters in the Asia and Pacific Regions with the aim of improving planning for air navigation facilities, services and procedures, as well as fostering their implementation. As there is no action item that calls for specific attention by the Council, it is not envisaged to table this report in the Council.

### 2.2 Air traffic management (Agenda Item 3.2)

2.2.1 *States air navigation modernization plans:* The WG/SRP queried why States should share its plans with ICAO for review and assessment, which implied that there also a requirement for an ICAO approval of the plans (Conclusion 21/1 refers). The Secretariat responded that an approval was not intended but that it helped ICAO in the development of provisions and in providing assistance to States. The WG/SRP nevertheless requested the Secretariat to provide details of the procedures and actions involved.

2.2.2 *Performance framework:* The WG/SRP concurred with the view of APANPIRG in Conclusion 21/3 on the need to have a common set of performance metrics for all the ICAO Regions and requested the Commission to call upon the Secretariat to complete the task along with guidance for the collection of data by September 2011.

2.2.3 *Volcanic ash contingency plan:* Noting Decision 21/9, the WG/SRP encouraged APANPIRG to expedite the development of a volcanic ash regional contingency plan in coordination with all parties concerned.

2.2.4 *Transfer FASID Table ATS 2 from ATS to MET:* With regard to Conclusion 21/10, the WG/SRP welcomed the initiative of APANPIRG and requested the Commission to call upon the Secretariat to review and consider the transfer of FASID Table ATS 2, HF radiotelephony VOLMET from the ATS part to the MET part of all ANP/FASID, where applicable, as a part of the overall exercise for converting paper-based ANPs into eANPs.

2.2.5 *Implementation of the NEW Flight Plan Format:* Confirming the request of APANPIRG in Conclusion 21/14, the WG/SRP recommends that the Commission request the Secretariat to continue to monitor the implementation status of every State in the ICAO Flight Plan Implementation Tracking System (FITS) Portal and ensure global harmonization for a coordinated transition to the NEW Flight Plan. The WG/SRP commented that, in view of any difficulties States may be encountering, the Secretariat could consider providing guidance on a phased approach.

### 2.3 Communications/navigation/surveillance (Agenda Item 3.4)

2.3.1 *ATN using IPS protocols:* The WG/SRP noted Conclusion 21/17 and requested the Commission to call upon the Secretariat to provide clarification on the issues related to the Aeronautical

Telecommunication Network/Air Traffic Services (ATS) Message Handling System (ATN/AMHS) implementation. Also, responding to a request in Conclusion 21/22 regarding the global IPv6 addressing scheme, the WG/SRP recommended that the Commission request the Secretary General to include this task in the work programme so as to develop SARPs for a global IPv6 addressing scheme for ground-ground communications.

2.3.2 *PBN provisions:* The WG/SRP, noting Conclusion 21/30, requested the Commission to call upon the Secretariat to develop guidance supplementing existing PANS provisions regarding limitation of older generation flight management system (FMS). Discussing further on the subject of performance-based navigation (PBN), the WG/SRP recognized that there were many other significant issues that impacted on the implementation of PBN, many of which were associated with different objectives. In this respect, while PBN is a worthy cause, a reality check was needed and the probability of widespread implementation was unlikely in the near to medium term. The WG/SRP did, however, agree that the development of guidance on aircraft equipage requirements for required navigation performance (RNP) value of 0.3 or greater (Conclusion 21/33 refers) may be of some use, if only to highlight the limitations.

2.3.3 *PBN Implementation:* With regard to the implementation of PBN, the WG/SRP noted that APANPIRG had reviewed and updated the regional plan. The WG/SRP noted the slow progress of PBN implementation in the region (see also paragraph 2.3.2 above) and welcomed any initiative that would encourage greater progress (Conclusions 21/31, 21/32 and 21/35 refer).

2.3.4 *Protection of the aeronautical frequency spectrum:* On the subject of preparations for the forthcoming International Telecommunication Union (ITU) World Radiocommunication Conference 2012 (WRC-2012), the WG/SRP appreciated the ongoing contribution of APANPIRG in addressing this issue in a number of forums, such as meetings of Director Generals of Civil Aviation and Asia-Pacific Telecommunity (APT) Regional Preparatory Meetings. As the frequency bands allocated to aviation use are highly attractive to commercial users, the WG/SRP reiterated the need for the civil aviation community to remain vigilant in safeguarding aeronautical interests. In this connection, the WG/SRP recommended that the Commission note Conclusion 21/43 and request the Secretary General to urge States to continue to participate at various levels in different forums to provide support to the ICAO position. Continuing deliberations, the WG/SRP confirmed the need to display the ICAO position for WRC-2012 on the home page of the ICAO website (Conclusion 21/44 refers).

## 2.4 **Aeronautical meteorology (Agenda Item 3.4)**

2.4.1 *MET/ATM Seminar:* The WG/SRP, concurring with the request of APANPIRG in Conclusion 21/50, recommended that the Commission request the Secretariat to conduct a MET/ATM Seminar, in coordination with WMO, in early 2011.

## 2.5 **Regional air navigation deficiencies (Agenda Item 4)**

2.5.1 *Addressing deficiencies:* Regarding deficiencies, the WG/SRP noted that APANPIRG had reviewed, analysed and prioritized the list of air navigation deficiencies (Conclusions 21/53, 21/54 and 21/55 refer). The WG/SRP requested the Commission to invite the Secretary General to accord highest priority in its work programme to the urgent elimination of the safety-related deficiencies and the States reflected in the APANPIRG list of deficiencies be urged to establish action plans with fixed target dates. Also, commitment to the elimination of deficiencies should be pursued through all available mechanisms, including the annual meeting of Director Generals of Civil Aviation.

2.5.2 *Cost recovery guidance material:* The WG/SRP noted Conclusion 21/56 and requested the Commission to call upon the Secretariat to coordinate with the Air Navigation Services Economics

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Panel (ANSEP) and World Meteorological Organization (WMO) and consider, if necessary, updating guidance material in the *Manual on Air Navigation Services Economics* (Doc 9161).

2.5.3 *Establishment of RASGs – Consequent revision to TOR of APANPIRG:* This item highlighted the need for the WG/SRP and ANC to consider how the reports and actions resulting from RASG meetings will be handled. It is probable that the process(es) will be identical to that associated with PIRGs (Conclusion 21/58 refers).

2.5.4 *Review of Regional ANPs:* With regard to Conclusion 21/59 calling on ICAO to review the regional air navigation plan structure, process and contents to incorporate them into eANP and expedite its provision for use, the WG/SRP was apprised that the task is in hand and that eANPs will be available by November 2012.

### 3. ACTION BY THE AIR NAVIGATION COMMISSION

3.1 The Air Navigation Commission is invited to:

- a) note the APANPIRG/21 Report and the report of the ANC WG/SRP thereon, as contained in this paper; and
- b) request the Secretary General to take specific action on the conclusions and decisions of the meeting, as proposed in Appendix C hereto.

P.D. Fleming  
Chairperson  
ANC Working Group for Strategic  
Review and Planning

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## APPENDIX A

### THE TWENTY-FIRST MEETING OF THE ASIA/PACIFIC AIR NAVIGATION PLANNING AND IMPLEMENTATION REGIONAL GROUP (APANPIRG/21) Bangkok, Thailand, 6-10 September 2010

#### EXECUTIVE SUMMARY

1. Attended by 114 participants from twenty-three States and three international organizations.
  2. ICAO was invited to develop a common set of performance metrics for all ICAO regions so as to facilitate comparative analysis of regional developments of air navigation infrastructure.
  3. Developed the Asia/Pacific Guidance Material for the Implementation of Amendment 1 to the fifteenth edition of the *Procedures for Air Navigation Services – Air Traffic Management*. Called on ICAO to continue with interregional coordination for ensuring implementation of a new flight plan format by 15 November 2012.
  4. The China RMA has been approved as an Asia/Pacific RVSM Regional Monitoring Agency (RMA) with responsibility for all RVSM airspace in China FIRs and the Pyongyang FIR.
  5. Adopted a revised strategy for implementation of ATN in the Asia/Pacific Region.
  6. ICAO to consider a global IPv6 addressing scheme for ground-ground communication.
  7. States which have not developed their State PBN Implementation Plans were urged to develop their plans in accordance with the Asia/Pacific Regional PBN Implementation Plan. ICAO to consider establishing regional development and implementation teams, similar to ICAO/IATA global GO teams, to assist States in expediting PBN implementation. ICAO to highlight the slow progress and impediments in PBN implementation at the 47 DGCA Conference.
  8. The revised regional surveillance strategy for Asia and Pacific Regions was adopted.
  9. States were urged to support the ICAO position at WRC–2012. ICAO was requested to improve visibility to its position on WRC–2012 agenda items on the ICAO website.
  10. The ISCS Provider State, in cooperation with ICAO Headquarters and the Asia and Pacific Regional Office, to work with other States to assist with the implementation of the World Area Forecast System File Service (WIFS) by March 2012.
  11. ICAO to consider updating the cost recovery guidance material that would take into account States where air traffic volume is not sufficient in terms of cost recovery for the necessary MET services.
  12. Agreed to continue to consider environmental issues in the planning and implementation of regional air navigation systems.
  13. As a result of the establishment of the regional air navigation safety group RASG–APAC, adopted the revised terms of reference of APANPIRG.
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## **APPENDIX B**

### **TWENTY-FIRST MEETING OF THE ASIA/PACIFIC AIR NAVIGATION PLANNING AND IMPLEMENTATION REGIONAL GROUP (APANPIRG/21)**

#### **APANPIRG CONCLUSIONS/DECISIONS**

##### **AN ANALYSIS**

1. The APANPIRG/21 Meeting developed a total of 59 outputs, comprising 49 conclusions and 10 decisions. These 59 outputs can be categorized into two levels of actions. The first level (48 outputs), known as “implementations plans”, calls for action by Headquarters, the Regional Office, States and APANPIRG itself and results in activities that support the implementation of air navigation systems. The second level (11 outputs: Conclusions 21/3, 21/10, 21/14, 21/17, 21/22, 21/30, 21/33, 21/44, 21/50, 21/56 and 21/59), known as “implementation gaps”, calls for action specifically by Headquarters and results in activities involving further development of requisite provisions and/or guidance material.
  2. Out of 59 outputs, 22 and one paragraph have been suggested for specific review by the ANC and are detailed in the Action Plan in Appendix C hereto. For ease of reference associated outputs (conclusions/decisions), if any, are also shown in the Action Plan. The selection criteria for the 23 outputs for review by the ANC reflect, inter alia, key regional implementation issues, call for interregional harmonization, and refer to ICAO global programmes or request specific action by ICAO Headquarters.
  3. With regard to the conclusions and decisions of the meeting which are not reflected in the Action Plan, follow-up action will be taken by the Secretary General in accordance with established practice. Each entry in the Action Plan is linked to the Strategic Objectives of the Organization for 2005-2010.
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## APPENDIX C

**Select conclusions/decisions of APANPIRG/21**  
**— Action Plan —**

<b>Concl/Dec No. --- Strategic Objective*</b>	<b>Title of Conclusion</b>	<b>Text of Conclusion</b>	<b>Responsibility</b>	<b>Deliverable</b>	<b>Action Recommended to ANC</b>	<b>Reporting/ Completion date</b>
<b>C 21/1  D</b>	<b>States' air navigation modernization plans</b>	That, States developing their national air navigation modernization plans which may have an impact on ICAO SARPs, be urged to share those plans in a timely manner with ICAO for review and assessment, to ensure global compatibility and harmonization.	ICAO APAC Office	State letter	Noted and requested the Secretariat to provide more details on the established procedures for the harmonization of these modernization plans.	March 2011
<b>C 21/3  D</b>	<b>Common Set of Performance Metrics for all the ICAO Regions</b>	That, ICAO be invited to:  a) develop a common set of performance metrics for all the ICAO regions so as to facilitate comparative analysis; and  b) establish the globally harmonised guidance on methodology of how to collect the data in order to achieve commonality.	ICAO HQ	A common set of performance metrics for all ICAO regions including guidance material for collection of data.	Supported the conclusion and requested the Secretariat to develop a common set of metrics applicable to all regions along with guidance for the collection of data.	September 2011
<b>C 21/4 + associated C 21/5 and C 21/6  D</b>	<b>Regional Guidance Material for the implementation of Amendment 1 to PANS-ATM</b>	That, in order for States to clearly understand what is intended in Amendment 1, the <i>Asia/Pacific Guidance Material for the Implementation of Amendment 1 to the Fifteenth Edition of the Procedures for Air Navigation Services – Air Traffic Management (PANS-ATM, Doc 4444)</i> provided in <b>Appendix B</b> to the APANPIRG/21 Report on Agenda Item 3.2, be adopted and published as regional guidance material.	ICAO APAC Office	Regional guidance material on APAC website	Noted	Completed

Concl/Dec No. --- Strategic Objective*	Title of Conclusion	Text of Conclusion	Responsibility	Deliverable	Action Recommended to ANC	Reporting/ Completion date
D 21/9  E	Develop sub-regional volcanic ash contingency plan	That,  a) in view of the recent volcanic activity in Iceland, the CNS/MET Sub-Group be requested to develop sub-regional volcanic ash contingency plans; and  b) urge States to designate appropriate contact points to establish/maintain contacts in the interim period until the sub-regional volcanic ash contingency plans become available.	ICAO APAC Office          ICAO APAC Office	Volcanic ash regional contingency plans       Contingency contact list	Noted and requested the Secretariat to expedite the development of volcanic ash regional contingency plan in coordination with all parties concerned.	December 2011       Completed
C 21/10  D	Transfer FASID Table ATS 2 from ATS to MET	That, ICAO considers the transfer of FASID Table ATS 2, HF radiotelephony VOLMET broadcasts, from ATS to MET, which would involve moving the Tables related to VOLMET broadcasts from the ATS part to the MET part of all ANP/FASID, where applicable.	ICAO HQ	Review of FASID. Modifications, if any, to be incorporated in eANP	Noted and requested the Secretariat to review as a part of overall exercise for converting all ANPs to eANPs.	November 2012

Concl/Dec No. --- Strategic Objective*	Title of Conclusion	Text of Conclusion	Responsibility	Deliverable	Action Recommended to ANC	Reporting/ Completion date
C 21/14 + associated C 21/13  D	<b>Enhancement of the Global Coordination for Implementation of the NEW Flight Plan Format</b>	That, in light of the varying degree of States in implementing the NEW flight plan format, ICAO:  i) urge all the States, including those outside the Asia/Pacific Region, to record their readiness in the FITS;  ii) take action to ensure that any States or ICAO regions not use non-standard local procedures; and  iii) ensure appropriate coordination take place between ICAO regional planning and implementation groups (PIRGs) to address implementation issues.	ICAO HQ	Global harmonization through monitoring of implementation status on ICAO FITS portal.	Noted and requested the Secretariat to continue to monitor the implementation status of every State on ICAO FITS portal and ensure global harmonization for a transition to NEW Flight Plan.	November 2012
C 21/15  A	<b>Responsibility Area of China RMA</b>	That, the China RMA be approved as an APANPIRG Asia/Pacific RVSM Regional Monitoring Agency with responsibility for all RVSM airspaces in China FIRs, and the Pyongyang FIR.	ICAO APAC Office	State letter to China and MAAR	Noted	Completed
Paragraph 3.3.49  A	<b>Use of the revised MMR in LTHM for the region</b>	RASMAG decided that the revised MMR agreed by RMACG/5 would remain as the basis for the maintenance of LTHM requirements in the Asia/Pacific region after November 2010.	ICAO APAC Office	Revised MMR for LTHM for the ASIA/PAC Region	Noted	Completed

Concl/Dec No. --- Strategic Objective*	Title of Conclusion	Text of Conclusion	Responsibility	Deliverable	Action Recommended to ANC	Reporting/ Completion date
C 21/17  D	<b>ICAO Manual on the ATN using IPS Standard Protocol (Doc 9896) clarifications</b>	That ICAO be invited to provide clarifications on the following issues related to ATN/AMHS implementation:  i) VoIP should be limited to ATS ground service since the ICAO approach is to encourage data communication such as CPDLC for air-ground communication. Furthermore, the VoIP performance is network dependent and thus performance acceptance is varied;  ii) how the States will come to know about updates on the relevant RFCs; and  iii) IPv6 address structure.	ICAO HQ	SARPs related to ATN/AMHS implementation	Noted and requested the Secretariat to provide clarifications on the issues related to ATN/AMHS implementation.	2012
C 21/20  D	<b>Strategy for implementation of aeronautical telecommunication network (ATN) in the Asia/Pacific Region</b>	That, the document provided at <b>Appendix C</b> to the Report on Agenda Item 3.4 be adopted as Strategy for Implementation of Aeronautical Telecommunication Network (ATN) in the Asia/Pacific Region.	ICAO APAC Office	Strategy for Implementation ATN in the Asia/Pacific Region.	Noted	Completed



Concl/Dec No. --- Strategic Objective*	Title of Conclusion	Text of Conclusion	Responsibility	Deliverable	Action Recommended to ANC	Reporting/ Completion date
C 21/30  D	<b>Limitation of Older Generation FMS</b>	That, ICAO (IFPP, PBNSG) be invited to note once again the importance of the limitation of older generation FMS in storing multiple procedures for the same type of navigation system for a runway. This limitation occurs when pilots attempt to select a specific approach that is not stored in the FMS navigation database. ICAO is requested to consider establishing additional guidance, supplementing existing PANS provisions and to explore solution(s).	ICAO HQ	Additional guidance supplementing existing PANS provisions regarding limitation of older generation FMS	Noted and requested the Secretariat to develop guidance supplementing existing PANS provisions regarding limitation of older generation FMS.	2012
C 21/31 + associated C 21/32 and C 21/35  D	<b>Revised APAC Regional PBN Implementation Plan</b>	That, the revised APAC Regional PBN Implementation Plan Version 2.0 provided in <b>Appendix M</b> to the Report on Agenda Item 3.4 be adopted.	ICAO APAC Office	Revised APAC Regional PBN Implementation Plan	Noted the delay in implementation of PBN and requested the Secretariat to consider what can be done to encourage greater progress.	Ongoing
C 21/33  D	<b>Aircraft Equipage Requirements</b>	That, ICAO provides guidance on aircraft that do not have a lateral and vertical readout on the navigation display, but do display the lateral and vertical profile on the navigation equipment, which could be considered as an alternate means of compliance, if supplemented by appropriate flight crew training for RNP value of 0.3 RNP or greater.	ICAO HQ	Guidance on aircraft equipage requirements for RNP value of 0.3 or greater	Noted and requested the Secretariat to develop guidance on aircraft equipage requirements for RNP value of 0.3 or greater.	2012

Concl/Dec No. --- Strategic Objective*	Title of Conclusion	Text of Conclusion	Responsibility	Deliverable	Action Recommended to ANC	Reporting/ Completion date
C 21/40 + associated C 21/39  D	<b>Guidelines for Airworthiness and Operational Approval for ADS-B Avionics Equipage</b>	That, States be advised to use the guidelines provided in <b>Appendix P</b> to the Report on Agenda Item 3.4 for Airworthiness and Operational Approval for ADS-B Out Avionics Equipage.	ICAO APAC Office	Guidelines for airworthiness and operational approval for ADS-B Out avionics equipage	Noted	Completed
C 21/41 + associated C 21/36  D	<b>Revised Regional Surveillance Strategy for Asia and Pacific Regions</b>	That, the revised Regional surveillance strategy for Asia and Pacific Regions provided in <b>Appendix Q</b> to the Report be adopted.	ICAO APAC Office	Revised regional surveillance strategy	Noted	Completed
C 21/43  D	<b>Preparation for WRC – 2012</b>	That, a) States be urged to have the designated contact person closely involved in the preparatory work for WRC – 2012 at the national level in close coordination with the contact points designated by respective telecommunication regulators; b) make necessary arrangements for the designated contact persons to attend the APT APG meetings and WRC – 2012 Conference to protect aviation interests; and c) reference to APANPIRG Conclusions 19/41, 20/58 and DGCA Conference Action Item 46/8 may be used to support these efforts.	ICAO APAC Office	States support to ICAO position at WRC 2012	Noted and appreciated the preparatory work of APANPIRG in order to seek the support of States for ICAO position at WRC 2012.	January 2012

Concl/Dec No. --- Strategic Objective*	Title of Conclusion	Text of Conclusion	Responsibility	Deliverable	Action Recommended to ANC	Reporting/Completion date
C 21/44  D	<b>Visibility of ICAO Position on WRC – 2012 Agenda Items</b>	That, ICAO be urged to improve visibility to ICAO Position on WRC-2012 Agenda Items of critical interest to civil aviation on the ICAO website.	ICAO HQ	Increased visibility of ICAO position for WRC2012 on ICAO website by displaying it on home page	Agreed and requested the Secretariat to display ICAO position for WRC2012 on the home page of ICAO website.	March 2011
C 21/50  D	<b>MET/ATM Seminar</b>	That, ICAO in coordination with WMO conduct a MET/ATM Seminar in early 2011.	ICAO HQ	Conduct a MET/ATM seminar in early 2011	Noted and confirmed the need for MET/ATM Seminar in early 2011	2011
C 21/53 + associated C 21/54 and C 21/55  D	<b>Elimination of ATM Air Navigation Deficiencies</b>	That, States concerned  a) be urged to take urgent actions to correct the deficiencies in the ATM/AIS/SAR fields identified in Attachment A to the Report on Agenda Item 4 ;  b) notify details of the problems/difficulties to the Regional Office; and  c) designate a point of contact in each State to deal with deficiencies and provide details to the Regional Office by 22 October 2010.	ICAO APAC Office and States	Remedial action plan      Challenges for the implementation of remedial action plan      Point of contact	Noted and requested the Secretariat to accord highest priority in its work programme to the urgent elimination of the safety-related deficiencies. States reflected in the APANPIRG list of deficiencies are urged to establish action plans with fixed target dates. Also, commitment to the elimination of deficiencies should be pursued through all available mechanisms, including the annual Conference of DGCAs.	Ongoing      Ongoing      Completed



Concl/Dec No. --- Strategic Objective*	Title of Conclusion	Text of Conclusion	Responsibility	Deliverable	Action Recommended to ANC	Reporting/ Completion date
C 21/56  D	<b>Cost Recovery Guidance Material Update</b>	That, ICAO be invited to consider updating the cost recovery guidance material that would take into account States whose air traffic volume is not sufficient in obtaining the cost recovery for the necessary MET services required in Annex 3 and consider shared services in airspace blocks that are based on the number flights needed in obtaining the necessary cost for the services required for that airspace block.	ICAO HQ	Updated guidance material in the <i>Manual on Air Navigation Services Economics</i> (Doc 9161)	Noted and requested the Secretariat to coordinate with ANSEP and WMO and consider, if necessary, updating guidance material in the <i>Manual on Air Navigation Services Economics</i> (Doc 9161)	2012
C 21/58  A	<b>Establishment of RASGs – Consequent revision to TOR of APANPIRG</b>	That meeting adopt the revised terms of reference of APANPIRG as shown in the Appendix A to the Report on Agenda Item 6.	ICAO APAC Office	Revised TOR of APANPIRG	Noted and requests the ANC to consider how the reports and actions resulting from RASG meetings will be handled	Completed
C 21/59  D	<b>Development of new Regional ANP</b>	That, ICAO be invited to review the regional air navigation plan structure, processes and contents to incorporate them in to e-ANP and expedite its provision for use.	ICAO HQ	Revised ANP and development of eANP	Noted and requested the Secretariat to continue with the development of eANPs	November 2012

\* **Note:** ICAO established the following Strategic Objectives for the period 2005-2010:

**A: Safety** - Enhance global civil aviation safety;

**B: Security** - Enhance global civil aviation security;

**C: Environmental Protection** - Minimize the adverse effect of global civil aviation on the environment;

**D: Efficiency** - Enhance the efficiency of aviation operations;

**E: Continuity** - Maintain the continuity of aviation operations; and

**F: Rule of Law** - Strengthen law governing international civil aviation.