



*International Civil Aviation Organization*

**The Twentieth Meeting of the APANPIRG ATM/AIS/SAR Sub-Group  
(ATM/AIS/SAR/SG/20)**

Singapore, 05 – 09 July 2010

**Agenda Item 4: Review and progress the tasks assigned to the ATM/AIS/SAR/SG by APANPIRG**

**Agenda Item 10: Update the ATM/AIS/SAR Task List**

**ATM/AIS/SAR TASK LIST**

(Presented by the Secretariat)

**SUMMARY**

This paper presents the ATM/AIS/SAR List of Tasks allocated by APANPIRG.

This paper relates to

**Strategic Objectives:**

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

**Global Plan Initiatives:**

- GPI-1 Flexible use of airspace*
- GPI-2 Reduced vertical separation minima*
- GPI-3 Harmonize level systems*
- GPI-4 Alignment of upper airspace classifications*
- GPI-5 Performance based navigation*
- GPI-6 Air Traffic Flow Management*
- GPI-7 Dynamic and flexible ATS route management*
- GPI-8 Collaborative airspace design and management*
- GPI-9 Situational awareness*
- GPI-10 Terminal area design and management*
- GPI-11 RNP and RNAV Standard Instrument Departures (SIDs) and Standard Terminal Arrivals (STARs)*
- GPI-12 Flight Management System (FMS) – based arrival procedures*
- GPI-14 Runway operations*
- GPI-16 Decision support and alerting systems*
- GPI-17 Implementation of data link applications*
- GPI-18 Aeronautical information*

## 1. INTRODUCTION

1.1 APANPIRG/20 (September 2009, Bangkok) reviewed the updated Task List provided by ATM/AIS/SAR/SG/19 (June 2009, Bangkok) and agreed that the Task List suitably reflected the work programme of the Sub-Group and formulated the following Decision:

### **Decision 20/19 – ATM/AIS/SAR Task List**

That the ATM/AIS/SAR Sub-Group Task List and attachments contained in Appendix A to the ATM/AIS/SAR/SG/19 Report on Agenda Item 10 be adopted as the current work programme for the ATM/AIS/SAR Sub-Group of APANPIRG.

## 2. DISCUSSION

2.1 The ATM/AIS/SAR Sub-Group Task List contained in Appendix A to the ATM/AIS/SAR/SG/19 Report on Agenda Item 10 is presented as an **attachment** to this paper.

## 3. ACTION BY THE MEETING

3.1 The Meeting is invited to review and update the list of tasks allocated to the Sub-Group by APANPIRG.

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**ATM/AIS/SAR Sub Group of APANPIRG — TASK LIST**

The priorities assigned in the list have the following connotation:

A = Tasks of a high priority on which work should be expedited; and

B = Tasks of a medium priority on which work should be undertaken as soon as possible but not to the detriment of Priority “A” tasks.

*(last updated 26 June, 2009)*

ACTION ITEM & PRIORITY	GLOBAL PLAN INITIATIVE	DESCRIPTION	TARGET DATE	RESPONSIBLE PARTY	STATUS	REMARKS
18/1  Priority A	GPI-5 Performance based navigation  GPI- 8 Collaborative airspace design and management	<p><b><u>ATS Routes</u></b></p> <p>a) Identify ATS route requirements and monitor progress of route implementation in APAC Region</p> <p>b) Coordinate implementation of new ATS routes in accordance with the requirements of both States and airspace users</p> <p>c) Maintain Asia/Pacific ATS Route Catalogue on ICAO Regional Office website</p>	ONGOING	<p>States, Airspace Users, Regional Office</p> <p><b>Functional Responsibility:</b>                      TRASAS                      CMRI                      BBACG                      FIT-BOB                      BOB-RHS/TF                      SEACG                      FIT-SEA                      SEA RR/TF</p> <p>ISPACG &amp; FIT                      IPACG &amp; FIT                      ASIOACG</p>	OPEN	ATS Routes included as standing agenda item on ATS Coordination Group agendas

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ACTION ITEM & PRIORITY	GLOBAL PLAN INITIATIVE	DESCRIPTION	TARGET DATE	RESPONSIBLE PARTY	STATUS	REMARKS
18/2 Priority A	GPI-5 Performance based navigation  GPI-8 Collaborative airspace design and management	<b><u>ATS route implementation based on PBN Concepts</u></b>  <i>South East Asia</i> Conduct ATS route implementations in collaboration with stakeholders based on the Regional PBN Implementation Plan agreed by APANPIRG, to improve en-route airspace efficiency by means of reduced horizontal separation (lateral and longitudinal) based on PBN provisions.	2010	States of South East Asia, Regional Office  <b>Functional Responsibility:</b> SEACG, FIT-SEA, SEA RR/TF	OPEN	ATM/AIS/SAR/SG/19 established the SEA Route Review Task Force (SEA RR/TF)
18/3 Priority A	GPI-5 Performance based navigation  GPI-8 Collaborative airspace design and management	<b><u>ATS route implementation based on PBN Concepts</u></b>  <i>Bay of Bengal</i> Conduct ATS route implementations in collaboration with stakeholders based on the Regional PBN Implementation Plan agreed by APANPIRG, to improve en-route airspace efficiency by means of reduced horizontal separation (lateral and longitudinal) based on PBN provisions.	2010	States of Bay of Bengal, Regional Office  <b>Functional Responsibility:</b> BBACG, FIT-BOB, BOB-RHS/TF	OPEN	BBACG/20 adopted 2010 as target for 50 NM longitudinal, established the Bay of Bengal Reduced Horizontal Separation Implementation Task Force (BOB-RHS/TF)

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<p>18/4 Priority A</p>	<p>GPI-5 Performance based navigation  GPI-8 Collaborative airspace design and management</p>	<p><b><u>ATS route implementation based on PBN Concepts</u></b>  <i>Pacific Area (including North Pacific)</i> Conduct ATS route implementations in collaboration with stakeholders based on the Regional PBN Implementation Plan agreed by APANPIRG, to improve en-route airspace efficiency by means of reduced horizontal separation (lateral and longitudinal) based on PBN provisions.</p>	<p>2010</p>	<p>States of North Pacific, Central and South Pacific, respectively, Regional Office  <b>Functional Responsibility:</b> No ICAO working group established, informal groups doing this work, notably ISPACG, IPACG</p>	<p>OPEN</p>	<p>50 NM longitudinal implemented North Pacific in 2008  30/30 NM (RNP4) implemented Honiara, Nauru, Brisbane, Nadia Auckland Oceanic FIRs in January 2005  30/30 NM operational trials commenced Oakland FIR 2007, Fukuoka FIR from August 2008, Anchorage FIR estimate 2011</p>

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<p>18/5                      Priority A</p>	<p>GPI-5                      Performance based navigation</p> <p>GPI-8                      Collaborative airspace design and management</p> <p>GPI-10                      Terminal area design and management,</p> <p>GPI-11                      RNP and RNAV Standard Instrument Departures (SIDs) and Standard Terminal Arrivals (STARs)</p> <p>GPI-12                      Flight Management System (FMS) – based arrival procedures</p>	<p><b><u>Terminal Area implementation based on PBN Concept</u></b></p> <p>Implement ICAO Performance Based Navigation (PBN) provisions for terminal area operations in collaboration with stakeholders based on the Regional PBN Implementation Plan agreed by APANPIRG, to improve terminal area efficiency by use of advanced navigation specifications for SIDs, STARs and instrument approach procedures.</p>	<p>In accordance with Regional &amp; State PBN Plans for 2008-2012 and 2013-2016</p>	<p>States, Users, Regional Office</p> <p><b>Functional Responsibility:</b>                      PBN/TF</p>	<p>OPEN</p>	

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18/5 Priority A	GPI-6 Air traffic flow management  GPI-8 Collaborative airspace design and development  GPI-16 Decision support and alerting system	<p><b><u>Implement Air Traffic Flow Management</u></b></p> <p>States to consider and implement aspects of air traffic flow management (ATFM) including:</p> <ul style="list-style-type: none"> <li>a) centralized ATFM</li> <li>b) inter-regional cooperative ATFM;</li> <li>c) establishment of ATFM databases;</li> <li>d) application of strategic ATFM planning;</li> <li>e) application of tactical ATFM planning; and</li> <li>f) assessment of economic and environmental impact of the implementation of the ATFM system.</li> </ul>	2012	States, Users, Regional Office ATM/AIS/SAR/SG APANPIRG  <b>Functional Responsibility:</b> ATFM/TF for Bay of Bengal, no other working group established	OPEN	Bay of Bengal ATFM/TF active since 2005  Bay of Bengal implemented BOBCAT 5 July 2007  ATM/AIS/SAR/SG/19 drafted Conclusion to establish regional ATFM steering group
18/7 Priority A	GPI-2 Reduced vertical separation minima	<p><b><u>RVSM Implementation</u></b></p> <ul style="list-style-type: none"> <li>a) Plan for and facilitate implementation of RVSM, as appropriate, in the Asia/Pacific Region</li> </ul>	2009 - 2012	Affected States, Regional Office  <b>Functional Responsibility:</b> RVSM/TF dissolved in December 2008 following China implementation, no ICAO group required for few remaining APAC FIRs	OPEN  OPEN	China sovereign airspace implementation 21 November 2007. Pyongyang FIR scheduled October 2009. Ulaanbaatar tentatively 2012 in coordination with the Russian Federation.

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18/8 Priority A	None applicable	<p><b><u>Identify and manage Deficiencies in the ATM, AIS and SAR fields</u></b></p> <p>a) Develop and maintain Deficiencies list,                      b) Identify unimplemented items in the BANP,                      c) Assist States to correct deficiencies,                      d) Promote timely resolution of safety-critical items identified by APANPIRG</p>	ONGOING	<p>States, Users, International Organisations, Regional Office, ATM/AIS/SAR/SG APANPIRG</p> <p><b>Functional Responsibility:</b>                      No specific working group established, all parties have responsibilities in this area.</p>	OPEN	ALLPIRG/5 (March 2006) raised Conclusion 5/15 in respect of “Last Resort” action to resolve deficiencies
18/10 Priority A	None applicable	<p><b><u>ATM Contingency Planning</u></b></p> <p>Prepare ATM Contingency Plans based on model (Indonesia) adopted by APANPIRG/17. Coordinate with neighbouring States to prepare plans</p>	2010	<p>States, Regional Office,</p> <p><b>Functional Responsibility:</b>                      No working group established, work item included on agenda of ATS Coordination Groups.</p>	OPEN	Send copies of ATM Contingency Plans to Regional Office

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18/6 Priority B	GPI-18 Aeronautical information	<p><b><u>Implement AIS enhancements</u></b></p> <p>a) Develop AIS implementations plans for introduction of AIS quality systems and AIS databases and consider issues arising from the use of public internet for AIS;</p> <p>b) Study means of aeronautical data management by civil aviation authorities and/or ATS providers in other regions including the aeronautical information exchange model (AIXM) and the electronic AIP (eAIP), and consider the feasibility in making use of these methods/models in the Asia/Pacific Region;</p> <p>c) Develop Regional AIS Automation Plan, training material and conduct workshops on the Guidance Manual for AIS in the Asia/Pacific Region</p>	2012	States, Users, Regional Office  <b>Functional Responsibility:</b> AAITF	OPEN	AIS/AIM Implementation Task Force (AAITF) active since March 2006
18/9 Priority B	None applicable	<p><b><u>SAR Matters</u></b></p> <p>Assist appropriate provision of SAR facilities, services and procedures within the Asia Pacific Region by:</p> <p>a) Periodic review of SAR facilities, services and procedures in the region,</p> <p>b) Encourage States to delegate or negotiate SAR services,</p> <p>c) Asia/Pacific “SAR Capability Matrix” be kept up to date and distributed to States for information and action.,</p> <p>d) Asia/Pacific “Register of SAR Agreements” be kept up to date and distributed to States for information and action</p>	ONGOING	States, Regional Office, ATM/AIS/SAR/SG APANPIRG	OPEN	States to update the ATM/AIS/SAR/SG each year to permit the periodic update of the SAR Capability Matrix and Register of SAR Agreements.

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18/11 Priority B	As appropriate	<p><b><u>APANPIRG Key Priorities</u></b></p> <p>Regularly review APANPIRG List of Key Priorities for implementation of CNS/ATM systems for the Asia/Pacific region, identify new items as required, encourage and monitor implementation</p>	ONGOING	States, Regional Office, Airspace Users, International Organisations ATM/AIS/SAR/SG	OPEN	ATM/AIS/SAR/SG/19 recommended that the key priority items be included in Performance e Framework Forms (PFFs) and the Key Priorities List be discontinued.
18/14 Priority A	<p>GPI-5 Performance based navigation</p> <p>GPI-9 Situational awareness</p> <p>GPI-11 RNP and RNAV SIDs and STARs</p> <p>GPI-17 Implementation of data link applications</p>	<p><b><u>Amendments to ICAO Flight Plan</u></b></p> <p>Review Amendment 1 to the Fifteenth Edition of the PANS ATM (Doc 4444, effective 15 November 2012) to identify implementation complexities and consequent regional implementation plans and strategies arising from the adoption of amended PANS ATM provisions relating to the ICAO Flight Plan and associated ATS Message formats.</p>	2010	<p>States, Regional Office, Airspace Users, International Organisations ATM/AIS/SAR/SG</p> <p><b>Functional Responsibility:</b> FPL&amp;AM/TF</p>	OPEN	<p>FPL&amp;AM TF/1 drafted the <i>Interim Strategy for the Implementation of New ICAO Flight Plan Format and supporting ATS Messages</i></p> <p>ATM/AIS/SAR/SG/19 recommended that APANPIRG adopt the Interim Strategy</p>

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