



International Civil Aviation Organization

**FIFTEENTH MEETING OF THE
ASIA/PACIFIC AIR NAVIGATION PLANNING AND
IMPLEMENTATION REGIONAL GROUP (APANPIRG/15)
Bangkok, Thailand, 23 to 27 August 2004**

Agenda Item 3: CNS/ATM Implementation and Related Activities

KEY PRIORITIES FOR CNS/ATM IMPLEMENTATION IN THE ASIA/PACIFIC REGION

(Presented by the Secretariat)

SUMMARY

This working paper presents the list of Key Priorities for CNS/ATM Implementation in the Asia/Pacific Region, as updated during the APANPIRG Sub-Group Meetings, for review and action by APANPIRG/15

1. INTRODUCTION

1.1 The consolidated list of the Key Priorities for CNS/ATM Implementation in the Asia/Pacific Region in the different air navigation fields was discussed and revised during the ATM/AIS/SAR/SG/14 and CNS/MET/SG/8 meetings. The updated list is appended to this paper for consideration by APANPIRG/15.

2. DISCUSSION

2.1 During its review of the key priorities, the APANPIRG/14 meeting (August 2003) identified the need to include the implementation of Data Link Flight Information Services (DFIS) applications including D-ATIS, D-VOLMET and PDC into the list of key priorities for CNS/ATM implementation based on the benefits identified.

2.2 In addition, as a result of Sub-Group discussions on proposed changes to the regional strategy for GNSS implementation and the introduction of safety management system SARPs, APANPIRG/14 also recognized the need to include additional key priorities regarding the implementation of APV and RNP Approaches and the requirements for States to establish national safety management systems.

3. ACTION BY APANPIRG

3.1 The meeting is invited to:

- a) note the updated information in the list of Key Priorities for CNS/ATM Implementation in the Asia/Pacific Region appended to this paper;
- b) update the list, including identifying key priority items for inclusion or deletion from the list; and
- c) adopt the updated list of key priorities in terms of the following Decision:

Decision 15/xx – Amendment to the key priorities for implementation of the CNS/ATM systems for the Asia/Pacific Region

That, the amended list of Key Priorities for implementation of the CNS/ATM systems for the Asia/Pacific Region be adopted as shown in Appendix xx to the Report on Agenda Item 3.

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KEY PRIORITIES FOR CNS/ATM IMPLEMENTATION IN THE ASIA/PACIFIC REGION

NO.	KEY PRIORITIES	DESCRIPTION	MILESTONES	SUB-GROUP	STATUS
1	ATN Implementation	Implementation of Ground-to-Ground element of ATN is required.	2005	CNS/MET ATN Transition Task Force.	Implementation plan to be completed and implementation to commence in 2005
2	Incorporation of CNS/ATM Material into Regional ANP & FASID	Incorporation of CNS/ATM Material into Regional ANP & FASID	Report to APANPIRG	ATM/AIS/SAR	On-going
3	WGS-84 Implementation	To achieve uniformity in aeronautical data publication across the Region in order to ensure a standard reference system for CNS/ATM.	Immediate (Effective Date was 1 Jan 1998)	ATM/AIS/SAR	Implementation is monitored at each meeting using the uniform format for the reporting of WGS-84 implementation.
4	RVSM Implementation	To provide more efficient flight profiles and to increase airspace capacity in conjunction with the implementation of CNS/ATM.	Bay of Bengal – 27 November 2003 Domestic airspace of Tokyo and Naha FIRs and Incheon FIR – June 2005.	ATM/AIS/SAR	Completed On-going

NO.	KEY PRIORITIES	DESCRIPTION	MILESTONES	SUB-GROUP	STATUS
5	RNP Implementation En-route RNP 10 & 4 Terminal RNP 4 & 1 Approach RNP 0.3	Implement RNP based navigation, operation and procedures to improve the efficiency and flexible use of airspace.	Report to APANPIRG	ATM/AIS/SAR	On-going Phased implementation.
6	ADS-C	The implementation of ADS in oceanic or remote areas in accordance with the Regional CNS/ATM Plan is required for the enhancement of safety and ATM.	Report to APANPIRG FIT-BOB reconvened September 2003. Bay of Bengal operational trial of ADS/CPDLC commenced February 2004 FIT-SEA inaugural meeting May 2004. South China Sea operational trial of ADS/CPDLC expected 2006/2007	ATM/AIS/SAR	Phased implementation. Revised Regional CNS/ATM Guidance Material developed containing ADS section. Implementation focus and timetable need to be developed. States are gaining experience in the use of ADS.
7	Technical Co-operation in Regional CNS/ATM Planning & Implementation	The continuation and enhancement of ICAO's co-ordinating role of technical co-operation in CNS/ATM planning and implementation, in close co-operation with all partners and taking into account the regional approach, is required.	Report to APANPIRG	All	Sub-Groups to identify requirements.

NO.	KEY PRIORITIES	DESCRIPTION	MILESTONES	SUB-GROUP	STATUS
8	Preparation for WRC-2007	The co-operative participation of States is required with their respective telecommunications regulatory authorities, regional groups, at the APT forums and at the WRC regional preparatory meetings for WRC-2007 to ensure that aviation spectrum requirements are fulfilled and protected.	WRC-2007	All	States are designating contact points responsible for preparation for WRC 2007 and are providing contact details for posting on the website to facilitate coordination.
9	GNSS Implementation <ul style="list-style-type: none"> • ABAS • SBAS • GBAS 	<p>To implement GNSS in accordance with the Asia Pacific Regional Strategy.</p> <p>Develop regional GNSS augmentation requirements</p> <p>Ensure region wide awareness of developing GNSS systems integrate into Regional Plan.</p>	<p>On Going.</p> <p>Report to APANPIRG</p>	All	<p>SBAS – WAAS IOC announced on 10 July 2003</p> <p>SBAS receivers – (TSO C145/6) now available</p> <p>GBAS – FAA LAAS contract for delivery in 2009</p>
10	ATS route implementation	To review and develop new requirements for ATS routes.	<p>Report to APANPIRG</p> <p>APANPIRG/14 established the ATS Route Network Review Task Force (ARNR/TF). The first meeting is scheduled in September 2004.</p>	ATM/AIS/SAR	<p>On-going</p> <p>States to undertake review of current and future route requirements to submit to ARNR/TF</p>

NO.	KEY PRIORITIES	DESCRIPTION	MILESTONES	SUB-GROUP	STATUS
11	Final phase of WAFS	To implement transition to the final phase of WAFS to support the CNS/ATM system.	2005	CNS/MET WAFS Implementation Task Force	<ul style="list-style-type: none"> WAFS Transition Plan and Procedures have been developed and are being successfully implemented. Transfer of responsibility of RAFCs to WAFCs London and Washington has been implemented. RAFCs have been closed.
12	MET Chapter 11 of the ASIA/PAC Regional Plan for New CNS/ATM System	<p>To develop MET components of the ASIA/PAC CNS/ATM concept/strategy</p> <p>To develop MET Chapter of the Regional CNS/ATM Plan</p> <p>To identify the ATM requirements for new MET products supporting CNS/ATM systems and update the plan accordingly.</p>	<p>2003</p> <p>2004</p> <p>2005</p>	CNS/MET with assistance of the ATM/AIS/SAR & METATM TF	<ul style="list-style-type: none"> The first draft of MET Chapter of the Regional CNS/ATM Plan has been developed. MET Chapter 11 of the Regional CNS/ATM Plan incorporated in issue 6 of the Plan. METATM TF to survey the requirement and update the MET components of the ASIA/PAC CNS/ATM Plan.

NO.	KEY PRIORITIES	DESCRIPTION	MILESTONES	SUB-GROUP	STATUS
13	Data link Communications	Implementation of CPDLC. AIDC to be introduced where ATM automated systems are implemented.	On -going February 2004- CPDLC operational trial in the Bay of Bengal area. 2006/2007 CPDLC operational trial expected in the South China Sea area 2005	All All	Sub-Groups to review progress of implementation. Implementation focus and time-table need to be developed.
14	ADS-B	Data Link Selection for ADS/B recommended by ADS-B Task Force ADS-B Task Force to develop implementation plan and sub-groups foster implementation. States, where appropriate, implement ADS-B Air-Ground surveillance service on a sub-regional basis.	2003 2005 2006	CNS/MET ADS-B Task Force All	APANPIRG/14 adopted 1090 MHz ES as the data link for ADS-B in ASIA/PAC region. On-going On-going Australia actively progressing wide implementation of ADS-B.
15	Implementation of APV and RNP Approaches	Review applicability of APV and RNP Approach Design Standards for Asia Pacific. Develop implementation strategy.	On Going. Report to APANPIRG	ATM/AIS/SAR	APV and RNP Design standards now in PANS OPS. Aircraft certified for RNP and APV approaches.

NO.	KEY PRIORITIES	DESCRIPTION	MILESTONES	SUB-GROUP	STATUS
16	Data Link Flight Information Services (DFIS) applications	<p>To implement the following applications via request/response mode of data link in the Asia and Pacific Regions:</p> <p>a) Data link –automatic terminal information services (D-ATIS);</p> <p>b) VOLMET data link service (D-VOLMET);</p> <p>c) Pre-Departure Clearance (PDC) delivery via data-link;</p>	2008	All	Trials and demonstrations are conducted and some operational services are provided by States.
17	Safety Management Systems	States to establish national safety management systems and effective application of safety programmes which are required for the provision of air traffic services.	<p>APANPIRG/14 established the Regional Airspace Safety Monitoring Advisory Group (RASMAG).</p> <p>First RASMAG meeting held 26-30 April 2004</p>	RASMAG	<p>Annex 11 provisions effective 27 November 2003.</p> <p>On-going RASMAG activities</p>
