



International Civil Aviation Organization

**Thirteenth Meeting of the APANPIRG
ATS/AIS/SAR Sub-Group (ATS/AIS/SAR/SG/13)**

Bangkok, Thailand, 23 – 27 June 2003

**Agenda Item 2: Review the APANPIRG/13 Report and subsequent ANC/Council Actions
with respect to ATS/AIS/SAR issues**

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

(Presented by the Secretariat)

SUMMARY

This paper presents for review by the meeting Key Priorities for CNS/ATM Implementation in the Asia/Pacific Region.

1. INTRODUCTION

1.1 The APANPIRG/13 meeting held in Bangkok, Thailand from 9 – 13 September 2002 reviewed and adopted a number of Key Priorities for the CNS/ATM Implementation in the Asia/Pacific Region.

1.2 APANPIRG/13 formulated the following conclusion:

**Conclusion 13/41 - Inclusion of ADS-B on the list of Key Priorities of the
CNS/ATM Implementation in the Asia/Pacific Region**

That, a task on ADS-B be included on the list of Key Priorities of the CNS/ATM Implementation in the Asia/Pacific Region.

1.3 The ADS-B Study and Implementation Task Force Meeting was held from 24 to 26 March 2003 in Brisbane, Australia.

2. DISCUSSION

2.1 A copy of the Key Priorities for CNS/ATM Implementation in the Asia/Pacific Region is provided at Appendix A.

3. ACTION BY THE MEETING

3.1 The meeting is invited to review the appended Key Priorities for CNS/ATM Implementation.

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Key Priorities for CNS/ATM Implementation in the Asia/Pacific Region

No.	Key Priority	Description	Milestone	Sub-group	Status
1	ATN Transition	The development of an ATN transition plan is required.	2001	CNS/MET ATN Transition Task Force	Completed Completed development of the Plan
2	Incorporation of CNS/ATM Material into Regional ANP & FASID	To reflect regional agreement for the implementation of CNS/ATM facilities and services and the determination of priorities for financing.	APANPIRG/13	All	On-going CNS/MET SG/5 established Working Group to incorporate CNS/ATM materials in the Regional Procedure Part CNS FASID.
3	Revised South China Sea ATS Route Implementation	Successful implementation of this important route structure alleviates airspace congestion and provides a project model for similar route structure activity elsewhere in the Region.	1 November 2001	ATS/AIS/SAR	Implemented
4	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)	ATS/AIS/SAR	Implementation is monitored at each meeting using the uniform format for the reporting of WGS-84 implementation. Report progress to APANPIRG/13.

Appendix A

No.	Key Priority	Description	Milestone	Sub-group	Status
5	RVSM Implementation	To provide more efficient flight profiles and to increase airspace capacity in conjunction with the implementation of CNS/ATM.	Phase 1: 21 Feb 2002 – Western Pacific/South China Sea Phase 2: 31 Oct 2002- Hong Kong FIR and Sanya AOR Vientiane, Hanoi, Jakarta, Ujung Pandang, Bali FIRs. Phase 3: 27 Nov 2003- Asia to Europe South of the Himalayas and beyond	ATS/AIS/SAR	Phased implementation. RVSM Implemented in the Pacific 24 Feb 2000.
6	RNP Implementation	Global standard for navigation is seen as a prerequisite for many CNS/ATM implementation activities.	RNP-10/South China Sea 2001. RNP-10/ Australia- Indonesia 29 Nov 2001 RNP-10/Bay of Bengal/Arabian Sea 28 Nov 2002	ATS/AIS/SAR & CNS/ATM/IC	Phased implementation. RNP-10 is implemented in NOPAC, CENPAC, CEP & Tasman Sea. Implemented

No.	Key Priority	Description	Milestone	Sub-group	Status
7	ADS	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.	APANPIRG/13	ATS/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.
8	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.	APANPIRG/13	All	Sub-groups to identify requirements.
9	Preparation for WRC2003	The co-operative participation of States is required with their respective communications authority, regional groups such as the APT and at the WRC, preparatory meetings and study groups to ensure that aviation spectrum requirements are fulfilled including GNSS spectrum requirements.	WRC2003	All	ICAO Position presented at APT meetings in Sept.2000 and June 2001. State letter issued to follow up APANPIRG Conclusion 11/24, Regional Preparatory Group Meeting for WRC-2003 was held in Bangkok from 15 to 16 November 2001 in conjunction with AMCP WG-F meeting held from 19 to 27 November 2001 in Bangkok.

Appendix A

No.	Key Priority	Description	Milestone	Sub-group	Status
					States were encouraged to participate in the APT Meetings to be held from 10-15 June in Thailand and 2-7 September in Republic of Korea.
10	GNSS Implementation	To implement GNSS in accordance with the Asia Pacific Regional Strategy.	Phase 1- 2003	All	Phased implementation Sub-groups to develop plan and report progress to APANPIRG/13 GNSS Implementation Workshop was held in May 2001. • States are encouraged to implement GNSS for En-route and NPA functions. • States advised to participate in the GNSS Measurement Campaign and the result of the campaign presented to the CNS/ATM/IC/SG9. • GNSS Implementation checklist was developed and forwarded to States. • GNSS strategy was reviewed.
11	Airspace Management	To implement revised ATS route structures for the major traffic flows.	Phase 1: November 2001 Indonesia/ Australia	ATS/AIS/SAR CNS/MET	Phased implementation. Report progress to APANPIRG/13.

No.	Key Priority	Description	Milestone	Sub-group	Status
			Phase 2: Asia to Europe via South of the Himalayas, 28 Nov 2002		
12	Final phase of WAFS	To implement transition to the final phase of WAFS to support the CNS/ATM system.	2004	CNS/MET SG	- WAFS Transition Plan and Procedures has been developed and is being successfully implemented. - Transfer of responsibility of RAFCs to WAFCs London and Washington has been implemented. - Closure of RAFCs has been implemented.
13	MET Chapter 8 of the ASIA/PAC Regional Plan for New CNS/ATM System	To develop MET components of the ASIA/PAC CNS/ATM concept/strategy To develop MET Chapter of the Regional CNS/ATM Plan	2003 2004	CNS/MET with assistance of the ATS/AIS/SAR SG METATM TF	- The first draft of MET Chapter of the Regional CNS/ATM Plan has been developed. - METATM TF to develop MET components of the ASIA/PAC CNS/ATM concept/strategy.
14	Data – link Communications	- Implementation of CPDLC (with HF and/or SATCOM back-up) in oceanic or remote airspace. - AIDC to be introduced where ATS automated systems are implemented.	2002 2005	All All	Sub – Groups to review progress of implementation. Implementation focus and time table need to be developed.

Appendix A

No.	Key Priority	Description	Milestone	Sub-group	Status
15	ADS-B	Validate the selection of an ADS-B link in the Asia/Pacific by conducting a cost benefit study including a) the cost impact on avionics of mandatory carriage of the ADS-B link selected b) identified and quantified specific benefits such as reduced separation standards, optimum altitude. c) note the development of separation standards. d) determined a date for the mandatory carriage of the selected ADS-B link by aircraft in the Asia Pacific again. e) encourage standardization of the selected ADS-B link with transmit only systems that include integrated GPS capability.	APANPIRG/14	All ATS/AIS/SAR ATS/AIS/SAR CNS/MET	