



International Civil Aviation Organization

**Seventh Meeting of CNS/MET Sub-Group of APANPIRG and
Tenth Meeting of CNS/ATM IC Sub-Group of APANPIRG**

Bangkok, Thailand, 15 – 21 July 2003

Agenda Item 14: Review and identify key priorities in the CNS/ATM implementation

KEY PRIORITIES FOR CNS/ATM IMPLEMENTATION

(Presented by the Secretariat)

SUMMARY

This paper presents Key Priorities for CNS/ATM Implementation adopted by APANPIRG/13 meeting.

1. INTRODUCTION

1.1 APANPIRG/13 reviewed and adopted a number of Key Priorities for the CNS/ATM implementation in the ASIA/PAC region.

2. DISCUSSION

2.1 APANPIRG/12 recognized that, where possible, items entered, as Key Priorities, should have definitive target dates and avoid the use of the term “on going”. In addition, target dates should be realistic.

2.2 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

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

2.3 The list of the Key Priorities for CNS/ATM Implementation in the Asia/pacific Region is provided at Attachment to this paper

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) review and update the status of implementation of the Key Priorities; and
- b) ensure that the key priorities are either included in the Tasks List or addressed by the relevant Sub-group, as required.

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

Attachment to CNS/MET-ATM-WP/10

No.	Key Priorities	Description	Milestones	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	Incorporation of CNS/ATM Material into Regional ANP & FASID	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.

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No.	Key Priorities	Description	Milestones	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	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
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.

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Attachment to CNS/MET-ATM/WP10

No.	Key Priorities	Description	Milestones	Sub-group	Status
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.	WRC-2003	All	<p>ICAO Position presented at APT meetings in Sept.2000 and June 2001. State letter issued to follow up APANPIRG Conclusion 11/24,</p> <p>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.</p> <p>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.</p>

**Key Priorities for CNS/ATM Implementation in
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No.	Key Priorities	Description	Milestones	Sub-group	Status
10	GNSS Implementation	To implement GNSS in accordance with the Asia Pacific Regional Strategy.	Phase 1- 2003	All	<p>Phased implementation Sub-groups to develop plan and report progress to APANPIRG/13</p> <p>GNSS Implementation Workshop was held in May 2001.</p> <ul style="list-style-type: none"> • 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.	<p>Phase 1: November 2001 Indonesia/ Australia</p> <p>Phase 2: Asia to Europe via South of the Himalayas, 28 Nov 2002</p>	ATS/AIS/SAR CNS/MET	Phased implementation. Report progress to APANPIRG/13.

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No.	Key Priorities	Description	Milestones	Sub-group	Status
12	Final phase of WAFS	To implement transition to the final phase of WAFS to support the CNS/ATM system.	2004	2004	<ul style="list-style-type: none"> • 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	<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>2003</p> <p>2004</p>	CNS/MET with assistance of the ATS/AIS/SAR SG METATM TF	<ul style="list-style-type: none"> • 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	<p>Implementation of CPDLC (with HF and/or SATCOM back-up) in oceanic or remote airspace.</p> <p>AIDC to be introduced where ATS automated systems are implemented.</p>	<p>2002</p> <p>2005</p>	<p>All</p> <p>All</p>	<p>Sub – Groups to review progress of implementation. Implementation focus and time table need to be developed.</p>

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



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CNS/MET SG/7 and CNS/ATM/IC SG/10

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ADDENDUM NO. 1

Add the following after paragraph 2.2

2.3 APANPIRG/13 was of the opinion that there was a need for overall co-ordination of key priorities for CNS/ATM Implementation and therefore formulated the following Conclusion:

Conclusion 13/47 – Key Priorities for CNS/ATM Implementation

That, in order to facilitate the implementation of the Key Priorities for CNS/ATM in the Asia/Pacific Region, ICAO is requested to:

- a) re-convene the FANS Action Team for the Bay of Bengal (FAT-BOB), and form a similar group for the Western Pacific/South China Sea; and,*
- b) adopt the broad terms of reference for these groups as follows:*
 - i. identify elements of the key CNS/ATM priorities which have not been implemented on a coordinated basis;*
 - ii. consider the implementation of these elements, on a prioritized basis, taking into account user operational requirements, cost-benefit and environmental concerns; and,*
 - iii. develop action plans for CNS/ATM implementation as appropriate on a collaborative basis.*

Amend paragraph number 2.3 to 2.4
