



International Civil Aviation Organization

**FOURTEENTH MEETING OF THE
COMMUNICATIONS/NAVIGATION/SURVEILLANCE
AND METEOROLOGY SUB-GROUP OF
APANPIRG (CNS/MET SG/14)**



Jakarta, Indonesia, 19 – 22 July 2010

Agenda Item 18: Future Work Programme

TERMS OF REFERENCE AND TASKS LIST OF THE CNS/MET SUB-GROUP

(Presented by the Secretariat)

SUMMARY

This paper presents the Terms of Reference (TOR) and an updated Subject/Tasks List of the CNS/MET Sub-Group for review.

This paper relates to

Strategic Objectives:

- A. Safety – Enhance global civil aviation safety
- D. Efficiency – Enhance the efficiency of aviation operations

Global plan initiatives:

- GPI-5 RNAV and RNP (Performance-based navigation)
- GPI-9 Situational awareness
- GPI-11 RNP and RNAV SIDs and STARs
- GPI-17 Data link applications
- GPI-19 Meteorological systems
- GPI-21 Navigation systems
- GPI-22 Communication infrastructure
- GPI-23 Aeronautical radio spectrum

1. Introduction

1.1 The Twentieth Meeting of APANPIRG in 2009 reviewed the Terms of Reference and agreed to amend it to include development of guidance materials for implementation and identification of intra-regional issues.

1.2 The meeting also reviewed the Subject/Tasks List and included comprehensive updating of several FASID tables and feasibility study for establishing a regional SBAS capability in the Tasks List. The status of on-going tasks was also updated where necessary.

1.3 The meeting considered it necessary to take into account the Performance Framework Forms being developed when the Subject/Tasks List is updated in the future.

2. Discussion

2.1 The APANPIRG/20 in its Decision 20/71 adopted the updated Subject/Tasks List as the Work Programme for CNS/MET Sub-Group. The TOR adopted by APANPIRG/20 and the Tasks List of the Sub-Group approved by the APANPIRG/20 are provided in **Attachments 1 and 2** to this paper.

Decision 20/71 - Updated Terms of Reference and Subject/Tasks List of the CNS/MET Sub-group

That, the revised Terms of Reference and Subject/Tasks List of the CNS/MET Sub-group provided in **Appendices Y and Z** to the Report be adopted.

2.2 The CNS/MET Sub group is expected to review the Terms of Reference and also the Subject/Tasks List at each meeting to identify the need for modification and updates.

3. Action Required by the Meeting

3.1 The meeting is expected to:

- a) review the Terms of Reference of the CNS/MET Sub-Group;
- b) Review priority, target dates, action proposed and/or in progress including the overall status, associated Strategic Objectives and GPIs of the Subject Tasks List; and
- c) Propose changes updates, as required.

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TERMS OF REFERENCE OF CNS/MET SUB-GROUP

- 1) Ensure the continuing and coherent development of the ASIA/PAC Regional Air Navigation Plan in the CNS/MET fields in accordance with the Global Air Navigation Plan.
- 2) Review and identify deficiencies that impede the implementation or provision of efficient CNS/MET services in the ASIA/PAC Region.
- 3) Monitor CNS/MET systems research and development, trial and demonstrations in the fields of CNS/MET and facilitate the transfer of this information and expertise between States.
- 4) Make specific recommendations and guidance materials aimed at improving CNS/MET services by the use of existing procedures and facilities and/or through the evolutionary implementation of CNS/ATM systems.
- 5) Review and Identify Inter-regional and intra-regional co-ordination issues in the fields of CNS/MET and recommend actions to address those issues.

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SUBJECT/TASKS LIST IN THE CNS/MET FIELDS

The priorities assigned in the list have the following connotation:

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

B = Tasks of medium priority on which work should be under taken as soon as possible but not to the detriment of Priority "A" tasks; and

C = Tasks of medium priority on which work should be undertaken as time and resources permit but not to the detriment of priority "A" and "B" tasks.

TOR = Terms of Reference of the Sub-Group

TASKS NO. 1 TO 31 HAVE BEEN COMPLETED AND REMOVED FROM THE LIST

No.	Ref.	Associated Strategic Objective & GPIs	Task	Priority	Action Proposed/In Progress	Action by	Target Date
1 (32)	RAN/3 C.8/14 APANPIRG/14 (TOR 3) (Note outcome to WP/40 of CNS/MET SG/14 to APANPIRG/21)	A-Safety E-Continuity GPI-19	Subject: Inadequate implementation of procedures for advising aircraft on volcanic ash and tropical cyclones Task: Monitoring of the implementation of international airways volcano watch (IAVW) and tropical cyclone advisories and SIGMETs	A	Monitor and provide assistance in the implementation of volcanic ash and tropical cyclone advisories and SIGMETs procedures to ensure provision of timely information on volcanic ash and tropical cyclones to aircraft.	CNS/MET SG Task Force on the implementation of Volcanic Ash and Tropical Cyclone advisories and SIGMETs (VA/TC/ITF)	On going
2 (35)	(TOR 3)	D – Efficiency All GPIs	Subject: To facilitate regional implementation of CNS/ATM Tasks: a) coordinate training/workshops to allow States to develop and implement new CNS/ATM procedures; b) encourage States to participate in the evaluation and training of new CNS/ATM systems;	A	1) Identify topics for training, develop syllabi and plan training programme; 2) Encourage States in the evaluation and training of new CNS/ATM systems; 3) Co-ordinate with States and monitor progress;	CNS/MET SG	On-going On-going On-going

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No.	Ref.	Associated Strategic Objective & GPIs	Task	Priority	Action Proposed/In Progress	Action by	Target Date
			c) progress the adoption of WGS-84 co-ordinate system and introduction of high integrity systems for the management of the co-ordinate data.		4) Collect information and suggest methods of resolving problems commonly faced by the States.	ATM/AIS/SAR CNS/MET SG	On-going
3 (36)	APANPIRG D. 4/46 RAN/3 C.12/3 APANPIRG 5/3 (TOR 3)	D – Efficiency All GPIs	Subject: Provision of adequate CNS/MET services Task: Monitor CNS/ATM systems research and development, trials and demonstrations in the fields of CNS/MET and facilitate the transfer of this information and expertise between States.	A	1) Encourage States to conduct R&D, trials & demonstrations of new CNS/MET services; 2) Monitor global developments that may have beneficial consequences on regional planning activities; 3) Consolidate information on new capabilities in the CNS/ATM system, for the Sub-Groups review and action; 4) Serve as a focal point for review of ongoing work of Regional formal and informal working groups that is relevant to CNS/MET; 5) Provide for coordinated training/seminars to keep all States informed on developments of trials and demonstrations.	CNS-MET	On-going

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No.	Ref.	Associated Strategic Objective & GPIs	Task	Priority	Action Proposed/In Progress	Action by	Target Date
4 (37)	C 12/24 <i>(note outcome of WP/31, WP/36, IP/7 of CNS/MET SG/14 to APANPIRG/21)</i>	D – Efficiency GPI-19	Subject : Transition to the GRIB and BUFR coded WAFS products Task : Implementation of the transition to the GRIB and BUFR coded WAFS products	A	1) Monitoring of implementation of BUFR coded SIGWX forecasts 2) Monitoring of the migration to SADIS 2G 3) Assist in preparation for the new gridded products for turbulence, icing and cumulonimbus 4) Monitoring of the migration to ISCS G3	CNS/MET SG WAFS Implementation Task Force WAFS/I TF WAFS/I TF	Completed Completed 2013 2009-2012
5 (38)	C12/36 APANPIRG C14/45	D – Efficiency GPI-19	Subject: Developing the new requirements for MET products and services in support of ATM.	A	1) Development of the initial draft of the MET Chapter; 2) Development of the MET components of the CNS/ATM concept/ strategy; 3) Inclusion of ATM requirements for MET information in the CNS/ ATM Plan; 4) MET/ATM Coordination Seminar – February 2006. 5) Conduct survey on ATM requirements for MET information 6) MET/ATM meeting in 2009	CNS/MET SG with assistance of MET WG on CNS/ATM Plan CNS/MET SG METATM TF METATM TF MET ATM TF	Completed Completed Completed Completed Reconvene Completed

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No.	Ref.	Associated Strategic Objective & GPIs	Task	Priority	Action Proposed/In Progress	Action by	Target Date
					7) MET/ATM seminar in 2010	MET ATM TF	Jan. 2011
6 (39)	APANPIRG/13 D 13/28	A - Safety D – Efficiency GPI-19	Subject: To improve the efficiency of the regional and inter-regional OPMET exchange and the availability of OPMET information from the ASIA/PAC Region Task: Review and optimize the ROBEX scheme and other OPMET exchanges; introduce monitoring and management procedures for the ROBEX centres and Regional OPMET data banks	A	1) Review and update regional ROBEX tables and relevant documents; 2) Propose optimization changes to the ROBEX scheme; 3) Improve the availability of OPMET data at the Regional OPMET Data Banks (RODB); 4) Improve the availability of OPMET information from the Pacific States; 5) Introduce monitoring and management Procedures.	CNS/MET SG OPMET Management Task Force (OPMET/M TF)	Recurrent task Completed On-going On-going Completed
7 (43)		D- Efficiency GPI17,18,19,22	Subject: Implementation of data link Task: Encourage implementation	A	Encourage States to implement CPDLC, D-ATIS, D-VOLMET, PDC and DPC	CNS/MET SG	Continuous SIP Seminar on DFIS conducted. in 2008 - and first SOCM meeting held in 2009
8 (45)	APANPIRG List of deficiencies (note outcome of WP/40 to CNS/MET SG/14	A – Safety GPI - 19	Subject: Implementation of SIGMET Task: Improve regional procedures and availability of SIGMET from ASIA/PAC States	A	1) Assist States in implementing SIGMET requirements; 2) Conduct regular SIGMET tests;	CNS/MET SG VA/TC/I TF	Recurrent task Recurrent task

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No.	Ref.	Associated Strategic Objective & GPIs	Task	Priority	Action Proposed/In Progress	Action by	Target Date
	to APANPIRG/21)				3) Review and update training and guidance material; 4) Regular monitoring on the availability and quality of SIGMET and advisories.		Recurrent task Recurrent task
9 (46)	APANPIRG/17 C 17/23	D-Efficiency GPI-5 GPI-11	Subject: To implement Performance Based Navigation Concept in Asia/Pacific Region Task: Implement Performance Based Navigation in the Region.	A	1) To conduct Workshops/Seminars in the Region to familiarize the States about PBN Concept 2) To develop roadmap for implementation of RNP and RNAV procedures	CNS/MET SG ATM/AIS/SAR SG CNS/MET SG	Seminar and Workshop on PBN were Conducted in 07/08 and in 03/2009 Regional PBN plan was adopted in 2009.
10 (48)		D-Efficiency GPI22 GPI9	Subject: FASID Task: Updating of FASID Table CNS-1B, CNS-1C, CNS-1E, CNS-4A and CNS 4B.	A	Seek State revision of Tables prior to March 2010. Review and update FASID Tables with the assistance of the Secretariat	CNS/MET SG	Completed Amendment proposal processed in early 2010
11 (49)		A-Safety D-Efficiency E-Continuity GPI23	Subject: WRC-2011 (2012) Task: Supporting ICAO position for ITU WRC-2011 on agenda items related to civil aviation	A	Seek States to support ICAO position at regional telecommunity – APT APG and at WRC.	CNS/MET SG	On-going till 2012 RPG/1 was held in December 2009
12 (50)	TBD by APANPIRG/20	D-Efficiency E-Continuity GPI21	Subject: SBAS capability study Task: conduct study on the need for and feasibility of establishing a	B	To conduct study by members of the CNS/MET Sub-group	CNS/MET SG	2011

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No.	Ref.	Associated Strategic Objective & GPIs	Task	Priority	Action Proposed/In Progress	Action by	Target Date
		GPI11	regional SBAS capability				
13 (51)	TBD by APANPIRG/20	A-Safety D-Efficiency GPI9	Subject: Study of using SSR Mode S SI code Task: , Study on the need for introduction of SSR Mode S SI code for future use in the Asia and Pacific region	B	To conduct study by members by the CNS/MET Sub-group	CNS/MET SG	2012

*** Number in bracket indicates sequential number since establishment of the Sub-group.**