



International Civil Aviation Organization

**Eight Meeting of the Communications/Navigation/Surveillance and
Meteorology Sub-Group (CNS/MET SG/8) of APANPIRG**

Bangkok, Thailand, 12-16 July 2004

Agenda Item 2: Review

1) Action on the reports of CNS/MET SG/7

ACTION ON DECISIONS/CONCLUSIONS OF CNS/MET SG/7 MEETING

(Prepared by the Secretariat)

SUMMARY

This paper reviews actions taken by the APANPIRG/14 Meeting, ANC/Council, States and the Secretariat on the Decisions and Conclusions formulated by the CNS/MET SG/7 Meeting.

1. INTRODUCTION

1.1 The Fourteenth Meeting of APANPIRG held in Bangkok from 4 to 8 August 2003 took action on the Decisions and Conclusions formulated by the Seventh Meeting of the CNS/MET Sub-Group held in Bangkok from 15 to 21 July 2003. Subsequently, the ANC and the Council completed actions on APANPIRG/14 report on 27 February 2004.

2. DISCUSSION

2.1 Actions taken by the ANC and the Council on the Decisions and Conclusions of APANPIRG/14 Meeting in CNS and MET fields are indicated in a tabular form in Attachment 1 and 2 respectively. Actions taken by States and the Secretariat are also shown in the Attachments.

3. ACTION BY THE MEETING

3.1 The meeting is expected to review the Attachments 1 and 2 and take appropriate actions, as requested.

**ACTION TAKEN ON DECISIONS/CONCLUSIONS OF
IN THE CNS/MET SG/7 IN THE CNS FIELD**

Report Ref. Deci./Concl. Of Sub-Group	Report Ref. Deci./Concl. No. APANPIRG	Action Taken by ANC/Council	Decision/Conclusion/ Action Taken	Action Taken by States/ICAO	Status
D. Concl. 7-10/1	C. 14/12	-	Conclusion 14/12 - ASIA/PAC Interface Control Document (ICD) for ATN Router That, the ASIA/PAC regional ICD for ATN Router be adopted and published.	Published in the website and States notified.	Completed
D. Concl. 7-10/2	C.14/13	-	Conclusions 14/13 - ATN Documentation Tree That, the updated ATN Documentation Tree be included in the Second Edition of the ATN Planning and Technical Document and forwarded to States.	Included in the Second Edition of ATN Planning Document and published and States notified.	Completed
D. Concl. 7-10/3	C.14/14	-	Conclusion 14/14 -ASIA/PAC ATN Inter Domain Routing Policy (IDRP) That, the ASIA/PAC ATN Inter Domain Routing Policy (IDRP) be adopted and distributed to States.	Published in the website and States notified.	Completed

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D. Concl. 7-10/4	C.14/15	-	Conclusion 14/15 – Use of Public Internet to support AFTN That, the guidance material for the use of Public Internet to support low speed AFTN circuits be adopted and circulated for States for use as an interim means pending the outcome of the result of Aviation Use of Public Internet Study Group.	- Provided to the Study Group; - Published in the website and State notified.	Completed
D. Deci. 7-10/5	C.14/16	-	Decision 14/16 – Revision of the Subject/Tasks List of the ATN Transition Task Force That, the updated Subject/Tasks List of the ATN Transition Task Force provided in Appendix A be adopted.	Task Force noted the changes made.	Completed
D. Concl. 7-10/6	C. 14/17		Conclusion 14/17 - Use of SATCOM voice for ATS That, a) SATCOM voice be used in compliance with existing SARPs; and b) ICAO develop a global policy for the use of SATCOM voice for ATS function.	The task has been assigned to ACP. ACP is looking for more details about the problem statement. State concerned has been advised to furnish details.	On going

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		ANC	<i>Noted the Conclusion and relevant provisions in Annex 10, and requested the Secretary General to consider developing, if necessary, additional procedures to address the use of SATCOM-voice for ATS.</i>		
D. Concl. 7-10/7	C.14/18	-	Conclusion 14/18 - Inclusion of Seoul in MWARA NCA-3 That, the ASIA/PAC FASID be amended in accordance with the established procedure to specify requirement for an aeronautical station in Seoul to provide HF air-ground communication in the MWARA NCA-3 Network.	- A proposal for amendment to the Table CNS-2 of FASID was processed. - States notified of the adoption of the proposal.	Completed
D. Concl. 7-10/8	C.14/19	-	Conclusion 14/19 – Updated Revision of the Strategy for Precision Approach and Landing Guidance Systems and the Strategy for the Implementation of GNSS Navigation Capability in the ASIA/PAC region That, the updated Strategy for Precision Approach and Landing Guidance Systems and the Strategy for the Implementation of GNSS Navigation Capability in the ASIA/PAC region provided in Appendices B and C respectively, to the report on Agenda Item 2.2 be adopted and provided to States.	The updated strategies were published in the website and States notified.	Completed

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D. Concl. 7-10/10	C. 14/20	-	Conclusion 14/20 - Near term ADS-B data link selection That, Mode S Extended Squitter (1090 ES) be used as the data link for ADS-B radar like services in the ASIA/PAC region in the near term.	Task Force is proceeding with the development of implementation plan based on 1090 ES as data link. AN-Conf/11 also endorsed this link for near-term use.	Completed
-	C.14/21	-	Conclusion 14/21 - Target date of ADS-B Implementation That States, where necessary to do so, be encouraged to implement “ADS-B out” for ground-based surveillance services in ASIA/PAC Region on a sub-region by sub-region basis with a target date of January 2006.	ADS-B Task Force developing plan for air-ground ADS-B implementation on a Sub-regional basis in an evolutionary manner.	On going
-	C.14/22	-	Conclusion 14/22 - Needs for development of ICAO SARPs for ADS-B That, in view of the progress made by States with operational trials for the implementation of ADS-B, ICAO be requested to give priority to: a) the inclusion of positional source data accuracy and integrity requirements for ADS-B services in the appropriate standards; and b) development of separation standards for ADS-B surveillance.	ICAO HQ requested to take appropriate action with respect to the global provisions. The Surveillance and Conflict Resolution System Panel (SCRSP) and Separation Panel (SASP) are expected to take appropriate actions.	On going

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		ANC	<i>Noted the Conclusion and requested the Secretary General to consider including source data accuracy and integrity requirements in ADS-B standards and also develop separation standards for ADS-B surveillance.</i>		
D. Deci. 7-10/9	C. 14/23	-	Decision 14/23 - Revision of the Terms of Reference of ADS-B Study and Implementation Task Force That, the new Terms of Reference of the ADS-B Study and Implementation Task Force be adopted as shown in Appendix D.	Task Force noted the revised TOR.	Completed
D. Concl. 7-10/11	C. 14/24		Conclusion 14/24 - Preparation for World Radio Communication Conference 2007 (WRC-2007) That, States, a) assign high priority to aeronautical spectrum management; b) participate in the development of States' position for WRCs at the national level to ensure support to the ICAO position; c) ensure, to the extent possible that, aviation representatives are included in States delegations to the Asia-Pacific Telecommunity (APT) Conference Preparatory Group) meetings and at WRCs;	This Conclusion was presented to the 40 th DGCA Conference. States have been urged to nominate focal point of contact.	On going

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		ANC	d) to nominate an ICAO designated focal point or contact person for aviation issues related to the WRC-07; and e) ensure participation of the designated focal point or contact person at the ICAO Regional Preparatory Group Meetings for WRC-07, APT Conference Preparatory Group Meetings for WRC-07, and at WRC-2007. <i>Noted the Conclusion and requested the Secretary General to continue encouraging the States to participate at various levels in different for a to provide support for the ICAO position at the forthcoming WRC-2007 so as to protect aeronautical frequency spectrum.</i>		
D. Deci. 7-10/40	C. 14/43	-	Decision 14/43 – Update Subject/Tasks List of the CNS/MET Sub-Group That, the updated Subject/Tasks List of the CNS/MET Sub-Group presented in Appendix L be adopted.	Brought to the attention of the Sub-Group.	Completed

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D. Deci. 7-10/39	C. 14/46	-	Decision 14/46 – Amendment to the key priorities for implementation of the CNS/ATM systems for the ASIA/PAC Region That, the amended list of Key Priorities for implementation of the CNS/ATM systems for the ASIA/PAC Region provided in Appendix B to the Report on Agenda Item 3 be adopted.	Brought to the attention of the Sub-Group.	Completed

**ACTION TAKEN ON DECISIONS/CONCLUSIONS OF
IN THE CNS/MET SG/7 IN THE MET FIELD**

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D. Concl. 7-10/13	C. 14/25	ANC	Conclusion 14/25 - Implementation of the SADIS second-generation system (SADIS 2G) That, subject to the successful completion of the trials, the APANPIRG endorses the implementation of the SADIS second-generation broadcast (SADIS 2G) <i>Noted the conclusion and recognized that the transition to SADIS 2G would accrue benefits to States, although there would be an initial cost implication at the system level.</i>	The implementation of SADIS 2G has been endorsed.	Completed
D. Concl. 7-10/14	C. 14/26	ANC	Conclusion 14/26 - Discontinuation of the current first-generation SADIS two-way VSAT programme That, the APANPIRG notes the plan to discontinue the current SADIS two-way VSAT programme as of 1 January 2004. <i>Noted the conclusion and acknowledged that the discontinuation of the current SADIS two-way VSAT programme effective 1 January 2004 constituted and initial step for migration from first to second generation</i>	SADIS two-way VSAT programme discontinued 1 January 2004	Completed

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			<i>SADIS broadcast system.</i>		
D. Concl. 7-10/15	C.14/27	-	Conclusion 14/27 - SADIS strategic assessment tables That, the ASIA/PAC SADIS strategic assessment tables, as given in Appendix F to the report on Agenda Item 2.2, be adopted and forwarded to the SADISOPSG for planning the future SADIS bandwidth requirements.	SADIS strategic assessment tables forwarded to the SADISOPSG.	Completed
D. Concl. 7-10/16	C. 14/28	-	Conclusion 14/18 – Use of the SADIS Internet Back-up Service by ISCS User States That, the ISCS user States be encouraged to consider the use of the SADIS internet-based ftp back-up service as an interim solution for reception of WAFS products and OPMET data in the event of difficulties in meeting the ISCS transition schedule. <i>Note: The use of the SADIS internet-based back-up service would require a software for visualization of the WAFS products.</i>	ISCS user States have been informed of the availability of the SADIS ftp back-up service.	Completed

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D. Concl. 7-10/17	C. 14/29		Conclusion 14/29 – Cost Recovery for the utilization of WAFS by the States That, ASIA/PAC States be encouraged to include the costs associated with the receipt and provision of WAFS products, in particular, the mandatory SADIS charges, the cost for the replacement or upgrade of WAFS workstations and software required for the transition to the GRIB and BUFR coded WAFS products, the upgrade and maintenance of the SADIS/ISCS VSAT equipment, in the cost recovery for the meteorological services provided in their territory via the air navigation service charges. <i>Note: The recovery of the costs should be in accordance with ICAO principles and policy on the air navigation service charges.</i>	States notified.	Completed
D. Concl. 7-10/18	C. 14/30	-	Conclusion 14/30 – States’ Actions for the Migration to the Operational Use of GRIB and BUFR coded WAFS Products That, a) ASIA/PAC States be urged to start the necessary preparations for the migration to the operational use of GRIB and BUFR coded WAFS products as a matter of urgency, if they have not already done so;	States have been notified on a number of occasions on the need to upgrade their systems for receiving/processing WAFS data. The migration process is still to be finalized.	On-going

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			b) States having difficulties in the migration to the operational use of GRIB and BUFR coded WAFS products be encouraged to urgently approach WMO for assistance under the WMO Voluntary Cooperation Programme (VCP). <i>Note: In order to expedite WMO consideration of VCP requests, States are encouraged to contact potential donors and subsequently inform WMO.</i>		
D. Concl. 7-10/19	C. 14/31	-	Conclusion 14/31 – Automatic Production of SIGWX Charts from BUFR Coded WAFS Products That, the WAFSOPSG be invited to consider the requirement for automatic production of SIGWX charts for the standard ICAO chart areas from BUFR coded WAFS products to be included into the set of minimum requirements to be achieved by the WAFS workstation manufacturers.	The conclusion has been considered by the first meeting of the WAFS Operations Group (WAFSOPSG/1, Lima, September 2003)	Completed (Action has been overtaken by WAFSOPSG)
D. Concl. 7-10/20	C. 14/32		Conclusion 14/32 – GRIB/BUFR Training That, the SADIS and ISCS provider States be invited to provide further training on the operational use of GRIB and BUFR coded WAFS products for the States in the ASIA/PAC Regions in coordination with ICAO and WMO.	Consultations between SADIS and ISCS provider States carried out. Training event expected December 2004.	On-going

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		C	<i>Note: It is desirable that the above training is organized conjointly by the SADIS and ISCS provider States for both SADIS and ISCS user States in the ASIA/PAC Region in late 2004/early 2005.</i> <i>Noted the conclusion and requested the Secretary General to invite the SADIS and ISCS Provider States to arrange, in coordination with ICAO and WMO, training on the operational use of GRIB- and BUFR-coded WAFS products for the States in the Asia/Pacific Regions during 2004/2005.</i>		
D. Concl. 7-10/22	C. 14/33		Conclusion 14/33 – Amendment of regional procedures related to WAFS in the ASIA/PAC Basic ANP and FASID That, the ASIA/PAC Basic ANP and FASID (Doc 9673) be amended as indicated in Appendix G to the report on Agenda Item 2.2.	Amendment proposal issued.	On-going

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D. Concl. 7-10/23	C. 14/34	-	Conclusion 14/34 – Notification for significant changes in the WAFS operation That, WAFSOPSG be invited to develop adequate notification procedure for significant changes in the WAFS operation to ensure that all States/users concerned are informed with enough lead time to prepare for those changes.	WAFSOPSG/1 meeting adopted Conclusion 1/6 on the subject	Completed
D Concl. 7-10/25	C. 14/35	-	Conclusion 14/35 – Inclusion of 9-hour TAF in the ROBEX exchange That, the ASIA/PAC States who are issuing 9-hour TAF, be invited to include these bulletins into the regular exchange under the ROBEX scheme.	State letter issued. OPMET/M TF/2 meeting created a new ROBEX Table for the 9-hour TAF	Completed
D. Concl. 7-10/27	C. 14/36	-	Conclusion 14/36 – ASIA/PAC Regional SIGMET Guide That, a) ICAO publish the new edition of the ASIA/PAC Regional SIGMET Guide in accordance with the established procedures; and b) based on the guidance provided in the ASIA/PAC Regional SIGMET Guide, the States be invited to review the operations of the designated MWOs and	SIGMET Guide published in September 2003 and sent to all States. The Guide is published on ICAO web site.	Completed

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			ensure that SIGMET messages are issued in full compliance with the Annex 3 provisions and the requirements stated in the ASIA/PAC Regional ANP.		
D. Concl. 7-10/28	C. 14/37	ANC	Conclusion 14/37 – Amendments to the SIGMET format That, ICAO be invited to consider amendments to the SIGMET format specified by Annex 3, in particular to the part of the SIGMET message related to the geographical location of the weather phenomenon, for which the SIGMET is issued, aimed at facilitating the preparation of SIGMET information and further standardization of the message format. <i>Note: Examples of proposed changes to the SIGMET format are shown in Appendix I to the report on Agenda Item 2.2.</i> <i>Noted the conclusion and requested the Secretary General to develop amendments to the SIGMET format specified by Annex 3, in particular to the part of the SIGMET message related to the geographical location of the weather phenomenon, aimed at further</i>	Task undertaken by the ICAO HQs	Completed

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			<i>standardization of the message format.</i>		
D. Deci. 7-10/30	D. 14/38	-	Decision 14/38 – Task Force on the implementation of volcanic ash and Tropical cyclone advisories and warnings (VA/TC Implementation TF) That, a) the Volcanic Ash Task Force, established by Decision 13/31 of APANPIRG be disbanded; and b) a Task Force on the implementation of the volcanic ash and tropical cyclone advisories and SIGMETs in the ASIA/PAC Region (VA/TC Implementation TF) be established with terms of reference, work programme and composition as shown in Appendix J to the report on Agenda Item 2.2.	VA/TC Implementation TF established	Completed

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D. Concl. 7-10/31	C. 14/39	-	Conclusion 14/39 – Harmonization of the format of volcanic ash and tropical cyclone advisories That, IAVW Operations Group (IAVWOP SG) be invited to review the format of the volcanic ash and tropical cyclone advisories and propose changes aimed at harmonizing the format of those elements which are common for both types of advisory messages.	The subject has been addressed by the IAVWOPSG/1 meeting and	Completed
D. Concl. 7-10/32	C. 14/40	-	Conclusion 14/40 – Amendment to FASID Table MET 1B in regard to the service provided by the meteorological watch office Wellington That, FASID Table MET 1B be amended by adding a note for MWO Wellington, New Zealand, as shown in the Appendix K to the report on Agenda Item 2.2.	Amendment proposal issued	On-going
D. Concl. 7-10/33	C. 14/41	-	Conclusion 14/41 – Implementation of the requirement for TC advisories by TCAC New Delhi That, India, as TCAC Provider State, be invited to implement, as a matter of urgency, the requirement for issuance of TC advisories by TCAC New Delhi as specified in the ASIA/PAC Basic ANP and FASID (Doc 9673), following the provisions of Annex 3, regarding the format of these advisories.	Communication with the Indian Meteorological Department carried out and the TCAC New Delhi started issuing TC advisories from the beginning of 2004	Completed

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D. Concl. 7-10/34	C. 14/42	ANC	Conclusion 14/42 – Further development of the ICAO provisions for the tropical cyclone advisories and SIGMETs That, ICAO be invited to consider further development of the Annex 3 provisions related to the format and content of the tropical cyclone advisories issued by the Tropical Cyclone Advisory Centres (TCAC) and SIGMETs for tropical cyclones issued by the meteorological watch offices (MWO). <i>Noted the conclusion and requested the Secretary General to consider further development of the Annex 3 provisions related to the format and content of the tropical cyclone advisory centre and SIGMETs for tropical cyclones issued by the MWO</i>	Task undertaken by the ICAO HQs.	Completed
	C. 14/44	ANC	Conclusion 14/44 – Application of Mode-S data link in automatic weather reporting That, ICAO be invited to consider the application of the Mode-S data link in automatic air-reporting as an alternative to ADS over areas covered by surveillance radars and to consider ways to facilitate its implementation in the ASIA/PAC Region. <i>Noted the conclusion and called upon the Secretary General to consider the use of Mode-S data link in automatic air reporting.</i>	Task undertaken by ICAO HQs.	Completed

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D. Concl. 7-10/37	C. 14/45	C	Conclusion 14/45 – Fostering of exchanges between MET and ATM That, a) the MET Authorities/Providers of the States, be encouraged to continually assess with the corresponding ATM authorities the requirements for MET information with the aim of developing new products/information to support the ATM, bearing in mind the potential costs and benefits involved; and b) ICAO be invited, in coordination with WMO, to organize a MET/ATM coordination seminar in ASIA/PAC Region in 2004, to foster the exchanges between the MET and ATM experts in order to facilitate further development of the MET component of the CNS/ATM systems in the ASIA/PAC Region. <i>Noted the conclusion and invited the Secretary General, in coordination with WMO, to organize a MET/ATM coordination semina in the ASIA/PAC Region during 2004.</i>	Initial coordination with WMO undertaken	On-going