



International Civil Aviation Organization

Eighth Meeting of CNS/MET Sub-Group of APANPIRG

Bangkok, Thailand, 12 – 16 July 2004

Agenda Item 13: MET component of the CNS/ATM systems

REPORT OF THE WORK OF THE METATM TASK FORCE

(Presented by the Taskforce Chairman)

SUMMARY

This paper reports on the work of the METATM Task Force of the CNS/MET SG.

1. BACKGROUND

1.1 Decision 5/30 of the Fifth Meeting of CNS/MET Sub-Group of APANPIRG, Bangkok, July 2001 established a METATM task force to investigate the MET requirements for ATM.

1.2 The seventh Meeting of CNS/MET Sub-Group of APANPIRG in July 2003 amended the terms of reference of the Task Force (TF) to -

- a) Evaluate the current and future requirements for MET in support of ATM in the ASIA/PAC Region and provide guidance material to assist States to develop MET services to meet these requirements.
- b) Monitor the emerging capabilities and developments of MET and as necessary update regional plans for the implementation of MET services and facilities.
- c) Promote communication between MET and ATM communities in the ASIA/PAC Region to enhance the level of understanding of MET requirements and capabilities in support of ATM.
- d) Report to the CNS/MET Sub-group of APANPIRG for further co-ordination through the ICAO Secretariat with other relevant bodies

1.3 The TF activity since July 2003 has been conducted in line with the terms of reference above and in response to APANPIRG conclusions 13/30 and 14/45.

2. TASK FORCE ACTIVITY SINCE JULY 2003

2.1 Regional survey on the MET component of ADS reports.

2.1.1 In response to Conclusion 13/30 of APANPIRG below:

Conclusion 13/30 - Regional survey on the current status and future plans of States to process the MET component of ADS reports.

That ICAO carry out a regional survey to assess the current status and future plans of States in the Asia/Pac Regions to process the MET component of the ADS message and forward the data to the WAFCs and to assess if the data is quality controlled

Note. – The survey would be undertaken by the METATM TF of the CNS/MET SG

The TF has conducted the regional survey the results of the survey are presented in Attachment 1 to this report.

2.2 Fostering of exchanges between MET and ATM

2.2.1 In line with Conclusion 14/45 of APANPIRG below:

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.

The TF has been involved in the organisation of a MET/ATM coordination seminar. I can report that WMO has been approached regarding the availability of funds and that the TF is developing a tentative programme for the seminar.

2.3 Promoting Communication Between the MET and ATM communities.

2.3.1 Material is being prepared identifying areas of Annex 3 (Amendment 73) which deal specifically with arrangements between Meteorological Authorities and Air Traffic Service Authorities. The TF expects this material to be very useful as a reference to MET and ATS Authorities and help facilitate discussion between MET and ATM communities and the development of new MET products in support of ATM. It will also provide input for the inclusion of ATM requirements in the CNS/ATM plan.

2.4 Future work of the TF

2.4.1 The TF plans to:

- further assist with the inclusion of ATM requirements for MET information in the CNS/ATM plan as a task of the CNS/MET SG,
- develop a range of sample products for MET information required in support of ATM for discussion between relevant MET and ATM authorities,
- assist with the planning of a MET/ATM coordination seminar in ASIA/PAC Region

Preliminary report - Asia/Pacific Regional Survey on the current status and future plans of States to process the MET component of ADS reports.

1. Introduction

1.1 This survey has been undertaken by the METATM Task Force of the Communications, Navigation, and Surveillance/Meteorology Sub-Group (CNS/MET) of Asia/Pacific Air Navigation planning and Implementation Regional Group (APANPIRG) as a result of conclusion 13/30 of APANPIRG.

Conclusion 13/30 - Regional survey on the current status and future plans of States to process the MET component of ADS reports.

That ICAO carry out a regional survey to assess the current status and future plans of States in the Asia/Pac Regions to process the MET component of the ADS message and forward the data to the WAFCs and to assess if the data is quality controlled

Note. – The survey would be undertaken by the METATM TF of the CNS/MET SG

2. Survey

2.1 A covering letter and survey at Attachment A were prepared and distributed to States in May 2004.

3. Analysis of Responses

3.1 As at July 1 fourteen responses have been received with thirteen fully completed.

3.2 The survey revealed:

- Seven (of 13) States indicated ADS was being used (2 on trial/test basis).
- One State currently has arrangements in place for MWO to receive, quality control and forward the MET block to WAFCs with a further three planning to have arrangements in place in the future.
- Successful trials of MET block extraction have been conducted in two other States.

3.3 A number of States indicated that ADS was not likely to be adopted in the near term due to adequate surveillance radar coverage.

3.4 The only State currently utilising the MET block of ADS operationally has noted a number of concerns regarding the quality control of the data and deficiencies in the AIREP code for distributing the data.

Subject: Regional Survey on the current status and future plans of States to process the MET component of ADS reports.

Dear Sir/Madam

1. As a follow-up of APANPIRG Conclusion 13/30 the METATM TF of the CNS/MET SG of APANPIRG is undertaking a survey of States in the ASIA/PAC Region with respect to the current status of the use of the MET component of ADS reports.

2. ICAO Annex 3, Chapter 5 (para 5.7.2) details the meteorological information in aircraft reports when air-ground data link is used and ADS is being applied referred to in this document as “the MET block”. Section 5.8 specifies arrangements between the meteorological authority and appropriate ATS authority dealing with the provision of this information and forwarding to subsequent users such as World Area Forecasting Centres (WAFCs). The aim of the survey is to assess the status of States progress with obtaining, quality controlling and forwarding to WAFCs the MET block of ADS messages.

3. As chairman of the Task Force I would be grateful if you would complete the attached questionnaire and return it to ICAO Asia/Pacific Office by 25 June. I hope to be able to present a summary of the information obtained at the forthcoming 8th meeting of the CNS/MET Sub-group of APANPIRG being held from 12 to 16 July 2004 in Bangkok.

Thank you, in advance, for your cooperation.

Best regards,

Ted Williams
Chairman
METATM TF of the CNS/MET SG

Asia/Pacific Regional Survey on the current status and future plans of States to process the MET component of ADS reports.

Q1. Use of ADS by ATS authority

Is ADS being used? (if not go to Q5)

Q2. Reception of MET block by meteorological watch offices (MWO)

Are arrangements in place for MWO to receive the MET block (if not go to Q5b). Please provide brief description

Q3. Quality Control

Is the MET block quality controlled

- a. If so how (e.g. range check, check for transmission errors)?

Q4 Dissemination

Is the data forwarded to the WAFCs?

- a. If so how?

Q5. Future plans

Are there plans for the introduction of ADS?

- a. If so when,
- b. Have provisions been made for MWO to;
 - i. Receive the MET block when it becomes available
 - ii. QC the data
 - iii. Forward the data to WAFCs?

Further Comments

6. Please feel free to provide comment on any aspects of your experience with the MET component of the ADS message which may be of benefit to other States or you would like to draw to the attention of ICAO.