



**INTERNATIONAL CIVIL AVIATION ORGANIZATION
ASIA AND PACIFIC OFFICE**

**REPORT OF
THE SEVENTH WORKING GROUP MEETING OF
AERONAUTICAL TELECOMMUNICATION NETWORK (ATN)
IMPLEMENTATION CO-ORDINATION
GROUP OF APANPIRG
(ATNICG WG/7)**

**Bangkok, Thailand
29 January 2010**

The views expressed in this Report should be taken as those of ATNICG WG/7 Meeting and not of the Organization. This report will be provided as baseline for discussion at ATNICG WG/8 and submitted to the Fifth Meeting of ATNICG for further action.

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1. OPENING OF THE MEETING

1.1 The Seventh Working Group Meeting of the Aeronautical Telecommunication Network (ATN) Implementation Co-ordination Group (ATNICG WG/7) of APANPIRG was held at ICAO Asia and Pacific Office, Bangkok, on 29 January 2010. The Meeting was hosted by Aeronautical Radio of Thailand Ltd. (Aerothai).

1.2 Mr. Hoang Tran, Chairman of the ATNICG chaired the meeting. Highlighting the tasks to be progressed by the meeting, Mr. Hoang Tran informed the meeting about the developments that are taking place in the ATN implementation scenario. He also reminded the meeting about the immediate tasks that are required to be taken up to comply with APANPIRG's Conclusion to implement BBIS MTA within the prescribed timeline.

2. ATTENDANCE

2.1 The Meeting was attended by 57 participants from 19 States (Australia, Bangladesh, Cambodia, Hong Kong China, Macao China, India, Indonesia, Malaysia, Mongolia, Myanmar, Nepal, Pakistan, Philippines, Republic of Korea, Singapore, Sri Lanka, Thailand, USA and Vietnam). The List of Participants is provided in **Attachment 1** to this Report.

3. OFFICERS AND SECRETARIAT

3.1 Mr. Hoang Tran, AMHS Programme Manager, FAA USA chaired the meeting.

3.2 Mr. Sujan Kumar Saraswati, Regional Officer CNS, ICAO Asia and Pacific Regional Office acted as Secretary for the meeting.

4. ORGANIZATION, WORKING ARRANGEMENT, LANGUAGE AND DOCUMENTATION

4.1 The ATNICG WG/7 met as a single body. The working language for the meeting was English inclusive of all documentation and this Report. List of Working and Information Papers is placed in the **Attachment 2** to this Report.

Following agenda was adopted by the meeting:

- Review ATNICG/6 Report
- Review implementation status and activities
- Review Regional ATN Implementation Strategy
- Discuss related implementation issues
- Review the requirements of changes to AMHS Technical Manual
- Any other Business

Agenda Item 1: Review ATNICG/6 Report

1.1 It was decided to defer the review of ATNICG WG/6 report presented through WP/3 for the ATNICG/5 meeting along with the report of ATNICG WG/7 meeting.

Agenda Item 2: Review implementation status and activities

2.1 Status of ATN/AMHS implementation by the States was presented to the AMHS Implementation Workshop held on 27 and 28 January prior to the meeting. The meeting therefore concluded that the status may not be reviewed once again.

Agenda Item 3: Review implementation strategy

3.1 Singapore, on behalf of the group tasked with the review of regional ATN/AMHS implementation strategy proposed amendments to the strategy through WP/10. The same paper was earlier presented to the Regional AMHS Implementation Workshop. Paper proposed amendments to the strategy to account for the developments that have taken place in the recent past. It was generally felt that connectivity between the hubs should be left for the bilateral arrangements and should generally be based on X.25 or IP sub-network. Meeting was of the view that the strategy should be studied further and it should be ensured that there is no single point of failure. It was agreed that the a comprehensive amendment proposal will be presented to ATNICG/5 for its review.

Agenda Item 4: Discuss related implementation issues

4.1 WP/6, presented by USA proposed addressing plan to implement a common address prefix for Asia/Pacific and NAM regions. It was mentioned that the addressing plan adopted by APANPIRG/20 does not provide for a common prefix for Asia/Pacific and NAM regions and hence needs to be modified. Paper proposed Hexadecimal Code 91 for the ADM field, which is used to further partition the ATN Addressing Domain to indicate a combined Asia/Pacific/NAM region.

4.2 Through WP/9, Hong Kong China stated the need for enhancing ATN network resilience within APAC region and between APAC and NAM regions, and proposed a direct ATN link between Hong Kong China and USA and an additional intra-regional link between Hong Kong China and Australia. The meeting was advised that with AMHS operation with Macao China on 29 December 2009, Hong Kong China was now ready to implement ATN/AMHS with other APAC backbone states. . Discussing the robustness of the backbone, the meeting was reminded about the related issues of additional expenditure and network redundancy. It was clarified that the existing routing policy was based on the shortest path and was not related to the traffic load; hence traffic load would not be a parameter to assess the requirement of additional links. Australia informed the meeting that though connectivity with Japan would be in or after 2012, this link had already been committed and any new links that involved additional expenditure would need further consideration. Hong Kong China was requested to present a joint working paper with USA and Australia for presentation at the next ATNICG meeting; and States, should consider Hong Kong China's proposal

which would be reviewed in the next ATNICG meeting. Hong Kong, China also expressed that Hong Kong being a backbone site at present had no inter-region ATN/AMHS connectivity whereas all other ATN/AMHS backbone sites already had one or more inter-regional connections. The proposal given in WP/9 would definitely enhance the resilience and balancing of the ATN/AMHS infrastructure in the APAC Region. The meeting also noted that the network redundancy was comparatively weak in Fiji and if possible it should be strengthened.

4.3 The meeting was reminded that Afghanistan has since been included in the region. In addition, ATN routing plan is required to be added in respect of Pakistan. It was agreed that a consolidated FASID Tables 1B and 1C amendment plan including the data in respect of Pakistan and Afghanistan will be presented to the next ATNICG meeting.

4.4 Meeting was reminded through a Working Paper presented by USA that the region is heading from X.25 to IP sub-networking environment. With the progression of conversion to IPS environment, there is a threat of address collision. Working Paper proposed a common addressing plan to avoid this problem. In IPv4 environment, it is required to be decided, whether the aviation community should use privately available address slots. Such slots are however not available in the IPv6 addressing scheme. ICAO ACP recommends acquiring addresses from the regional internet registry. The paper reminded that the addressing schemes are hierarchical and proposed a single identifier for combined Asia/Pacific and NAM region. It was however viewed that this issue should be raised in ACP so that a globally harmonious consensus can be developed.

4.5 The meeting was informed about the AMC training conducted by EUROCONTROL on 25 and 26 January. The training was hosted by AEROTHAI in their premises. A message received from EUROCONTROL on the procedure to be followed for entering data into AMC by the region was readout to the meeting. It was reminded that APANPIRG had adopted a Conclusion urging the States to enter their AMC related data through AEROTHAI. Meeting agreed to continue its support for the procedure adopted by the APANPIRG. Participants, including those who had sent their request to AMC directly as External Comm. Operators agreed to support the procedure adopted by APANPIRG. Thailand assured to study the requirement of data to be posted on AMC and develop a format to be used for providing the data for AMC. Meeting was of the view that even for the Read Only users, there should be some level of security provisions.

Agenda Item 5: Review the requirement of changes to AMHS Technical Manual

5.1 Enhancement to AMHS Manual Annex C was initially proposed by USA in the ATNICG WG/6 meeting held in September 2009. In the further development, USA through Working Paper 5 presented to ATNICG WG/7 meeting, stressed that the testing should be adequate to meet the requirements of network complexities. To support this argument, a number of additional tests like testing of IDRP capabilities etc. were proposed in the presentation. After review of the proposals made in the paper, the meeting concluded that USA should develop a comprehensive amendment document and then send it to Singapore for incorporation into the AMHS Manual.

Agenda Item 6: Any other Business

-Nil -

CONCLUSION

The meeting concluded with reviewing the actions required to be taken in future. Meeting thanked Eurocontrol for conducting AMC Training and Aeronautical Radio of Thailand Ltd. for hosting the Training, AMHS Implementation Workshop and the Meeting.

Declaring the meeting closed, Chairman thanked the participants for their contribution and wished them a safe and comfortable return journey.

**The Seventh Working Group Meeting of
ATN Implementation Coordination Group of
APANPIRG (ATNICG WG/7)
Bangkok, Thailand
29 January 2010**

ATTACHMENT 1 TO THE RPOET

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ATTACHMENT 2 TO THE REPORT



International Civil Aviation Organization

**Aeronautical Telecommunication Network
Implementation Coordination Group – Seventh
Working Group Meeting (ATNICG WG/7)**



Bangkok, Thailand
29 December 2010

LIST OF WORKING/INFORMATION PAPERS AND PRESENTATIONS

WP/IP/ SP No.	Agenda Item	Subject	Presented by
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LIST OF WORKING PAPERS

WP/1	-	Provisional Agenda	Secretariat
WP/2	2	Report on the Outcome of Working Group M – Maintenance of Aeronautical Communication Panel Meeting	Secretariat
WP/3	1	Report on the Outcome of ATNICG WG/6 Meeting	Secretariat
WP/4	4	FAA Planned Packet Switching Network (X.25) Decommission	USA
WP/5	5	Proposal for Enhancements to Asia/Pacific AMHS Manual, Annex C	USA
WP/6	5	ASIA/PAC ATN Network Service Access Point (NSAP) Addressing Plan	Singapore
WP/7	5	Draft AMHS Performance Assessment in the ASIA/PAC Region	Japan
WP/8	5	Statistics for ATS Messaging Management Related to the Asia/Pacific AMHS Performance Assessment	Japan
WP/9	5	Proposal to Enhance the ATN Backbone Network of the APAC Region	Hong Kong, China
WP/10	3	Strategy for Implementation of ATN in the Asia/Pacific Region	Australia, China, Hong Kong-China, India, Fiji, Japan, Singapore, USA

LIST OF INFORMATION PAPERS

IP/1	2	Implementation of ATN and AMHS Service between Hong Kong, China and Macao, China	Hong Kong, China
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WP/IP/ SP No.	Agenda Item	Subject	Presented by
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LIST OF PRESENTATIONS

SP/1	3	ICAO Frame Work	Secretariat
SP/2	2	ATNICG Activities	USA
