



*International Civil Aviation Organization*

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



29 January 2010, Bangkok, Thailand

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**Agenda Item:** Review ATNICG/6 Report

**REPORT ON THE OUTCOMES OF ATNICG WG/6 MEETING**

(Presented by the Secretariat)

**SUMMARY**

ATNICG WG/6 was held in Hua Hin from 22 to 25 September 2009. This paper discusses the outcomes of the meeting and brings out the Action Items developed by the meeting.

**1. INTRODUCTION**

1.1 Sixth Working Group Meeting of Aeronautical Telecommunication Network (ATN) Implementation Co-ordination Group (ATNICG WG/6) was held in Hua Hin, Prachuab Khri Khan from 22 to 25 September 2009. The meeting was hosted by Aeronautical Radio of Thailand (AEROTHAI). 41 participants from 12 States and one industry partner participated in the deliberations and contributed through Information/Working papers. Complete report of the meeting is placed on ICAO Asia/Pacific Region website and can be accessed on the following URL: [http://www.icao.or.th/meetings/2009/atnicg\\_wg6/index.html](http://www.icao.or.th/meetings/2009/atnicg_wg6/index.html)

1.2 Issues related to the development of implementation schedule, procedures for MTA and ATN Router testing, global ATN/IPS implementation plan, operational procedures for AMC were discussed in the meeting. The meeting was also informed about the developmental works that was going on related to the subject of the meeting.

**2. DISCUSSION**

2.1 A brief report on the outcomes of CNS/MET SG/13 and APANPIRG/20 meetings on issues related to the implementation of ATN/AMHS in the region was presented to the meeting. Participants were informed about APANPIRG Conclusion 20/28 which urged the States to register their addresses with AMC through AEROTHAI. It was predicted that all the time non-critical services like MET etc. will be using public internet in future and it was assured that *a detailed Working Paper will be prepared on the subject for presentation to CNS/MET SG and APANPIRG.* (**Action Item 1**)

2.2 The meeting noted the time schedule prescribed by APANPIRG for the implementation of ATN in BBIS hubs. It was further noted that the implementation of AMHS had progressed satisfactorily and it was agreed that *a comprehensive report on implementation in a tabular form will be prepared for presentation to CNS/MEG SG/14 and APANPIRG/21.* **(Action Item 2)**

2.3 Information on implementation and test schedule was exchanged between the States. Meeting was reminded about the requirement of amending the documents on the basis of PDRs and it was agreed that same PDR format will be used for the purpose of reporting all types of problems faced in the region. The meeting was of the view that implementation of ATN should be justified following Performance Based Approach through a cost/benefit study. It was also agreed that AFS should be fully protected from the public network. *All such issues like justification of ATN implementation, security of the network etc. should be adequately reflected in the strategy.* **(Action Item 3)**

2.4 While discussing implementation of PENS in Europe, it was clarified that EUROCONTROL had assured to provide the services of AMC till 2014. The meeting was also informed about the proposal to organize AMC training back to back with AMHS Workshop. Meeting also reviewed amendment proposals which had become necessary because of the problems faced during various stages of implementation. *USA offered to provide initial draft for additional tests recommended for transiting from point to point connectivity to logical connectivity by the first quarter of 2010 to Singapore.* **(Action Item 4)**

2.5 The meeting also agreed to adopt the comprehensive testing procedure developed on the basis of a presentation made by Hong Kong China. A paper tracing the evolution that is taking place in Air Traffic Control telecommunication infrastructure was presented by USA. CNS/MET SG/13 had desired ATNICG to develop a Working Paper on the subject and *this paper is being developed to meet that requirement.* **(Action Item 5)**

2.6 Based on the presentation made by Japan recommending adoption of IPv6, the meeting recommended that *APANPIRG should acquire a regional address prefix of a certain length and incase it does not become possible to acquire the address prefix, then region should self-designate a prefix which is unlikely to be allocated by IANA in near future (like 2CAA:/24).* **(Action Item 6)**

2.7 It was also suggested that recommendations should be made to secure communication between IPS hosts in Asia/Pacific region based on Doc 9896 and for protecting the hosts from unauthorized intrusion, denial of service and other attacks.

2.8 An adhoc group with Singapore as the lead developed a strategy document in three sections, the first section of the document contains Consideration for the Strategy, second section on Description of the General Strategy and the third section is on State Requirements to Implement the Strategy. It was also agreed that *a companion paper should be developed to provide a more detailed description of each item in the strategy with examples and the rational for the items when appropriate.* **(Action Item 7)**

2.9 Meeting adopted AMHS Implementation Roadmap and an AMHS Implementation Planner. *States were requested to provide the implementation schedule to Mr. P.K. Kapoor of India within two months of the meeting, so that the planner could be prepared.* **(Action Item 8)**

2.10 Meeting was informed about CAR/SAM region ATN Implementation Plan and the global IPv4 addressing scheme developed by them. The meeting concluded that *Asia/Pacific ATN AMHS will adopt the IPv4 address assignment proposed by the CAR/SAM region*, if the States want to use IPv4 network. The meeting also proposed that *CAR/SAM region and Asia and Pacific regional networks should be combined. (Action Item 9)*

2.11 While discussing the procedure to be used for feeding data into EUROCONTROL - AMC, it was agreed that though it was possible for the States to access the AMC directly, but it will be preferred to route the data through AEROTHAI for validation. Mechanism to handle Non Deliverable messages was also discussed.

2.12 Issues related to TCP/IP -ATN/OSI interface were discussed and it was felt that these issues will come up when inter-regional MTA implementation is initiated. *FAA assured to present a paper on this issue when it completes the MTA interface with UK in 2010 using RFC 1006 over TCP/IP network. (Action Item 10)*

2.13 Discussing security issues, particularly when IPS is adopted, it was recommended that IPsec should be used with IP. It was also recommended that security mechanism should be implemented along with the system itself, as subsequent implementation of security would raise complications and add to the cost.

2.14 Meeting, while reviewing the Terms of Reference assigned to the Group by APANPIRG, noted that it has become important to deliberate some of the operational issues in addition to the implementation issues. *It was agreed that inclusion of operational issues in the Terms of Reference will be taken up for consideration in the next Working Group meeting. (Action Item 11)*

2.15 Meeting also reviewed the Subject/Tasks list and proposed amendments. A copy of the amended Subject/Tasks list is placed as an **Attachment** to this paper. Information about the developments that have taken place in the implementation of ATN for air-ground communication was provided.

2.16 Meeting was informed that the documentation tree was last updated in 2005 and hence it was considered necessary to review the currency of the documents and update it wherever required. Requirement of additional guidance on subjects like IPS Transition Plan, AMC etc. were identified. *It was concluded that the Task Leads will inform Mr. V. Patel (FAA) about the status of relevant documents, so that the currency of these could be ensured. (Action Item 12)*

2.17 Meeting thanked Aeronautical Radio of Thailand for hosting the meeting and specially thanked ACM Somchai Thean-anant, President AEROTHAI for his gracious presence.

### **3. ACTION RECOMMENDED**

3.1 Meeting may like to note the outcomes of ATNICG WG/6 meeting and review the progress made on the Action Items identified on various issues.

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