



**International Civil Aviation Organization**

**THE EIGHTH MEETING OF AERONAUTICAL  
TELECOMMUNICATION NETWORK (ATN)  
IMPLEMENTATION CO-ORDINATION GROUP  
OF APANPIRG (ATNICG/8)**

Jakarta, Indonesia, 18 - 21 March 2013



Ministry Of Transportation  
Republic of Indonesia

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**Agenda Item 3: Review States' ATN/AMHS Implementation Status, Transition and Operational Issues:**

**THE IMPLEMENTATION STATUS OF RENEWAL ATN/AMHS IN JAPAN**

(Presented by Japan)

**SUMMARY**

This paper presents the status of implementation regarding the renewal ATN/AMHS in Japan. It is scheduled that the current ATN/AMHS would be renewed and implemented on the third quarter in 2015. In this time, the investigation concerning to system design of the renewal was carried out.

**1. INTRODUCTION**

1.1 This paper provides implementation schedule of JCAB for the renewal ATN/AMHS project. We are now preparing for renewing toward the applicable of SARPs edition 3 and Dual Stack ATN Router. It is expressed schedule for the renewal ATN/AMHS and shared the result of investigation regarding the connectivity for planned implementation.

**2. DISCUSSION**

Schedule for the renewal ATN/AMHS

2.1 Implementation schedule of JCAB is as follows:

- From Nov in 2015, the renewal ATN/AMHS will be implemented for the AMHS circuit which is already connected with current ATN/AMHS in JCAB
- After 2016, it will be yearly planned to change the connection from AFTN to ATN/AMHS about two circuits from the remaining AFTN connections.

The result of investigation regarding the connectivity

2.2 Since JCAB has investigated to grasp the necessity of the units which are equipped with in ATN/AMHS, it is shared the information as the movement of implemented ATN/AMHS in the Asia Pacific region. The contents included in questionnaire were the type of connectivity requirement (ATN/OSI(X.25), ATN/OSI(IP SND CF),IPS) and the status of connection.

1) Hong Kong China:

- a) ATN/OSI(X.25),ATN/OSI(IP SND CF) --- applicable
- b) Other information  
Hong Kong-Macao AMHS/ATN connection put into operational phase since the last of 2009.

2) Singapore:

- a) ATN/OSI(X.25),ATN/OSI(IP SND CF) --- applicable  
In addition, it was connected via IP through Firewall for Euro-Region (ICAO Doc 9896)
- b) Other information  
Currently, it is connected to India (ATN Router) and UK (IP). Testing is still on-going with Malaysia (IP), Indonesia (IP) and Thailand (ATN Router).

3) Russia:

- a) The connection between Russia and Japan will be required by same connection for UK and Singapore.
- b) Other information  
The Moscow Centre is getting ready for migration to the new facilities with the AMHS functions. In last autumn, they successfully completed the trials on interoperability with the Frankfurt AMHS Centre, Germany. At this point, performing of analogous tests with other European Centres are being considered.

It is noted that there are practical examples of the interoperability on AMHS based on the document EUR Doc 020 (EUR AMHS Manual), of the EUR and APAC regions' Communication Centres (London and Singapore).

4) Australia:

- a) ATN/OSI(IP SND CF), ATN/IPS --- applicable
- b) Other information  
It is planed to the commission links with the USA and Singapore this year. Also it is planned to connect to New Zealand using IPS.

5) The United States:

- a) ATN/OSI(X.25), ATN/OSI(IP SND CF) and IPS --- applicable

**3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) advice further information and correct regarding the connectivity of ATN/AMHS;  
and
- c) note that JCAB will coordinate the schedule to implement ATN/AMHS in future.

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