

International Civil Aviation Organization



**THE FIRST MEETING OF AERONAUTICAL
COMMUNICATION SERVICE (ACS)
IMPLEMENTATION CO-ORDINATION GROUP
OF APANPIRG (ACSICG/1)**



Seoul, Republic of Korea, 13 - 16 May 2014

Agenda Item 4: Review States' ATN/AMHS Implementation Status, Transition and Operational Issues

ATN/AMHS IMPLEMENTATION STATUS OF SINGAPORE

(Presented by Singapore)

SUMMARY

This paper presents a summary of current state of ATN/AMHS implementation in Singapore.

1. Introduction

1.1 Singapore completed its AMHS system implementation in 2007. The ATN/AMHS implementation status report for Singapore can be found below.

2. ATN/AMHS Implementation Summary

2.1 Under the ICAO ATN/AMHS implementation plan for the Asia Pacific Region, Singapore needs to establish BBIS links with Australia, Bahrain, India, Japan, London (UK), Thailand and BIS links with Brunei, Indonesia, Malaysia, Philippines, Sri Lanka and Vietnam.

2.2 To date, Singapore has implemented the ATN/AMHS circuits with India (Mumbai) and the United Kingdom (London). They have been in operation since 22 March 2011 and 23 March 2012 respectively.

2.3 Inter-operability trial (IOT) was also carried out with Bahrain, Malaysia, Indonesia and Thailand since 2011.

2.4 For Bahrain, IOT was completed in September 2011 using VPN over internet. Pre-operational trial will commence after mutual agreement to procure a new circuit for the ATN/AMHS connection between Bahrain and Singapore has been established.

2.5 For Malaysia, IOT was completed in September 2012. However, due to urgent operational requirement, both Singapore and Malaysia agreed to use the leased circuit originally acquired ATN/AMHS for voice instead. Discussion will be held with Malaysia on upgrading this physical connection from the current 64kbps to 128kbps for ATN/AMHS so that pre-operational trial can be conducted.

2.6 For Indonesia, IOT was completed in July 2011 and discussion will be held with Indonesia on upgrading the existing AFTN physical connection (which is currently multiplex with voice circuits) between Jakarta and Singapore from the current 64kbps to 128kbps for ATN/AMHS. Pre-operational trial will be conducted once the link is upgraded.

2.7 For Thailand, pre-operational trial was completed in July 2013. Currently, Technical Memorandum of Cooperation (TMC) document is being evaluated by both sides in order to enable the operation of the new ATN/AMHS link by Q4 2014.

2.8 For Australia, we are in the midst of discussion to use an internet VPN for AMHS testing.

2.9 For Japan, they have planned for AMHS testing and connection with Singapore in 2016.

2.10 For Sri Lanka, they have planned to connect AMHS to Singapore in Q4 2014.

3. Action by the Meeting

3.1 The meeting is invited to note the ATN/AMHS implementation progress in Singapore.
