



International Civil Aviation Organization

**AMHS/SWIM SEMINAR AND THE SEVENTH MEETING
OF AERONAUTICAL TELECOMMUNICATION NETWORK
(ATN) IMPLEMENTATION CO-ORDINATION GROUP
OF APANPIRG (ATNICG/7)**



Chiang Mai, Thailand, 5 – 9 March 2012

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

SINGAPORE ATN/AMHS IMPLEMENTATION STATUS REPORT

(Presented by Singapore)

SUMMARY

This information paper provides the ATN/AMHS implementation status in Singapore.

1 INTRODUCTION

1.1 Singapore completed its AMHS system implementation program in May 2008 (with Phase 1 for Operation System (2007) & Phase II for Training cum Disaster Recovery system (2008)). The ATN/AMHS implementation status report for Singapore can be found in Attachment 1.

2 ATN/AMHS CONNECTION

2.1 The ATN/AMHS circuit between India (Mumbai) and Singapore became operational in March 2011. Inter-operability trial (IOT) was also carried out with Indonesia, Thailand, Bahrain and United Kingdom in 2011 and Q1 2012.

2.2 For Indonesia, IOT was completed in July 2011 and discussion will be planned with Indonesia on upgrading the physical connection between Jakarta and Singapore for pre-operational trial.

2.3 For Thailand, IOT was carried out from 1st to 14th February 2012 with some observations. AEROTHAI and Singapore will coordinate a schedule for testing again.

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 United Kingdom (UK), IOT was completed in December 2011 using VPN over internet. A new circuit for the ATN/AMHS connection between UK and Singapore is currently being installed and pre-operational trial is planned for in March 2012. The target date to commission this circuit with UK is by Q4 2012.

2.6 Interconnection tests with other BBIS and BIS will be carried out on an availability basis once readiness indication is received from the respective States. These tests will include the inter-operability and pre-operational tests in the guidance document for AMHS conformance testing.

3 ACTION BY THE MEETING

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

- END -

Attachment 1

SINGAPORE ATN/AMHS IMPLEMENTATION STATUS REPORT

<u>Activities</u>	<u>Status / Schedule</u>
• Contract signed	– 4 th March 2006
• CDR (Design Review) completed	– Phase I: July 2006 Phase II: September 2007
• FAT (Factory Acceptance Testing)	– Phase I: November 2006 Phase II: March 2008
• Installation at Site	– Phase I: December 2006 to March 2007 Phase II: December 2007 to February 2008
• SAT (Site Acceptance Testing)	– Phase I: April 2007 to May 2007 Phase II: March 2008 to April 2008
• Training	– Phase I: December 2006 to May 2007 Phase II: April 2008 to May 2008
• Transition AFTN/AMHS	– End Jun 2007
• Final Acceptance Contract Signoff	– May 2008
• AMHS transition	– i) Singapore – India ATN/AMHS circuit was put into operation on 22 March 2011 ii) Inter-operability trial completed with Indonesia & Bahrain in July & September 2011 respectively. iii) Planning for pre-operational trial with Indonesia and Bahrain in 2012. iv) Inter-operability trial completed with UK in Dec 2011. Pre-operational trial is planned to commence in March 2012. v) Tests with other BBIS/BIS will be carried out on an availability basis once States are available for connectivity tests
