



International Civil Aviation Organization

**THE FIFTH MEETING OF AERONAUTICAL
TELECOMMUNICATION NETWORK (ATN)
IMPLEMENTATION CO-ORDINATION GROUP
OF APANPIRG (ATNICG/5)**



Kuala Lumpur, Malaysia, 31 May – 4 June 2010

Agenda Item 5: Review State's ATN/AMHS Implementation/Operational activities, issues and test results for BBIS Network

IMPLEMENTATION STATUS REPORT

(Presented by India)

SUMMARY

This information paper presents the implementation activities of ATN/AMHS at Mumbai, India

1. Background

1.1 ICAO ATN/AMHS implementation plan for Asia/Pacific Region requires India to establish BBIS links with Singapore, Thailand, China and BIS links with Pakistan, Sri Lanka, Nepal, Bangladesh and Bhutan. As part of ATN networking with other Regions, India also needs to implement AMHS Ground-Ground Links with Oman and Kenya.

1.2 Accordingly, following physical installation of the system at Mumbai and completion of Site Acceptance Testing in July 2008, India has initiated coordination for conducting AMHS trials with the BBIS/BIS states, where similar installations are in place.

1.3 India has already commenced the transitioning process from AFTN to AMHS by taking up the trials initially with Singapore and has successfully conducted bilateral interoperability tests according to the ASIA/PAC AMHS Manual. Pre-operational AMHS trials involving live traffic exchanges in parallel with AFTN, are currently on between the states since December 2009.

1.4 The challenges associated with the transition are being evaluated, in terms of hardware, infrastructure, and work practice changes, to adopt the new standard for ground-to-ground messaging communication.

2. Current AMHS Transition Activity

2.1 Both India and Singapore are currently working on finalizing the Technical Memorandum of Cooperation (TMC) by incorporating updates, changes and test results into the document that was mutually exchanged earlier. Efforts are also on for developing a Service Level Agreement (SLA) and Memorandum of Agreement (MOA) in accordance with the recommendation of the Asia/Pacific Regional ATN Implementation System Management Operational Procedures. Regular AMHS operation is expected to start shortly.

2.2 Establishment of BIS link between Mumbai and Karachi has also been taken up after receiving readiness from Pakistan. End-to-end media testing has been completed and system configurations at either ends are in final stages to commence the AMHS trials shortly.

2.3 Oman has also intimated their readiness to carry out AFTN over TCP/IP on AMHS systems between Mumbai and Muscat, pending commencement of AMHS operation. Accordingly both the states have established connectivity over AFTN gateway of AMHS systems at either ends. Live traffic of ATS messages are being satisfactorily exchanged on this AFTN link since February 2010. Coordination with Oman is being maintained to begin trials of AMHS message exchange.

2.4 Draft TMC has also been forwarded to China and Thailand for starting AMHS trials with Mumbai. China has presently indicated their readiness to initiate the trials from 3rd quarter of 2010.

3. Action by the Meeting

3.1 The meeting is invited to take note of above developments related to ATN/AMHS implementation in India.
