

International Civil Aviation Organization



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



Seoul, Republic of Korea, 13-16May 2014



Agenda Item 4: State-to-State AMHS Implementation Discussion

ATN/AMHS IMPLEMENTATION STATUS IN INDIA

(Presented by INDIA)

SUMMARY

This paper presents a summary of current state of ATN/AMHS implementation in India and urges BBIS and BIS states to resolve the bilateral issues on priority basis for effective use of the AMHS network and the resources invested in by the states.

Strategic Objectives:

A: Safety

C: Environmental Protection and Sustainable Development of Air Transport

Global Plan Initiatives:

GPI-17 Data link applications

GPI-22 Communication infrastructure

1. Introduction

1.1. India has implemented ATN/AMHS with dual stack ATN Router in Mumbai (Inter-Regional BBIS site) in April 2008.

1.2. This paper presents the current status of ATN/AMHS implementation in India.

2. Discussion

2.1. Following the commencement of regular operation with Singapore, India is continuously pursuing with other BBIS/BIS states for early implementation in line with regional and global plans for establishing AMHS network. The present implementation status in respect of BBIS and BIS states is appended below:

2.2. BBIS states' status :

- ❖ **Mumbai – Singapore:** The circuit is in regular operation w.e.f 23rd March 2011.
- ❖ **Mumbai-Beijing:** Preoperational trials were completed in July 2013 and subsequently India has forwarded the draft TMC for signature. However, response is still awaited from Beijing.
- ❖ **Mumbai-Bangkok:** Following mutual exchange of signed TMC, the commissioning of the circuit was planned on 08th April 2014. However, the regular commissioning was deferred for resolving some technical issues at Bangkok end. Both the states are coordinating to finalize the revised date of commissioning.

2.3. BIS states' status:

- ❖ **Mumbai-Karachi (Pakistan):** Consequent on successful IOT in November 2010, the trial operations on this circuit were completed in March 2012. India is urging Pakistan to sign the TMC and commence operations. As per latest status conveyed by Pakistan on 07-05-2014, long pending AMHS upgrade of Karachi system has been completed with provision of automatic AMC update facility. It is now expected that Pakistan will expedite signing of the TMC and commissioning of the circuit.
- ❖ **Mumbai-Muscat (Oman):** The circuit is presently operated on AFTN over TCP/IP through AMHS gateway. India has already written to Oman Civil Aviation Authority for early AMHS implementation. India is continuously pursuing with Muscat to sign TMC and plan trials for early implementation.
- ❖ **Mumbai – Kathmandu (Nepal):** TMC has been signed on 02-05-2014 and the circuit will be regularly commissioned w.e.f 02-06-2014
- ❖ **Mumbai – Bangladesh:** 64 KBPS media connectivity has been established between Mumbai and Dhaka on 25 April 2014. Both states are mutually coordinating to commence IOT.
- ❖ **Mumbai – Colombo (Sri Lanka):** India has already hired 64 KBPS media for this circuit and is coordinating with Sri Lanka since July 2013 for setting up of and early commissioning of the circuit. However, update is awaited from Sri Lanka
- ❖ **Mumbai – Nairobi (Kenya):** Despite reminders, update on implementation is awaited from Kenya
- ❖ **Mumbai – Bhutan:** Despite reminders, update on implementation is awaited from Kenya

3. Action by the Meeting

3.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) urge states to expedite AMHS implementation at their end for early establishment of the respective circuits and AMHS network in Asia/Pac region.

Attachment 1-A

ATN/AMHS IMPLEMENTATION STATUS IN INDIA

- Contract Signed (Date): 16 May 2007
- Completion of Physical Installation: 14 April 2008
- Completion of Training: 18 July 2008
- Completion of Local Testing: 27 May 2008
- Circuit test schedule:
 - Bilateral Agreement signed with the reciprocal end.
 - i. Singapore (BBIS) : TMC signed on 22 February 2011 and circuit commissioned on 23 March 2011
 - ii. Bangkok, Thailand(BBIS): TMC signed on 8 April 2014
 - iii. Beijing, China (BBIS): Draft TMC forwarded to China. Awaiting Response
 - iv. Kathmandu, Nepal (BIS) : TMC signed on 2 May 2014
 - iii. India is coordinating with Pakistan, Kenya, Oman, Bhutan, Sri Lanka & Bangladesh. Readiness is expected from these states.
 - Bilateral Test carried out as per the procedure prescribed(Date):
 - i. Singapore (BBIS) : 13 October 2009 (interoperability test) & 01 December 2009 (Pre-Operational tests)
 - ii. Beijing, China (BBIS): July 2012 (interoperability test completed) & July 2013 (Pre-Operational tests)
 - iii. Karachi, Pakistan: 14 November 2010 (interoperability test)
- Transition AFTN/AMHS (Date/Schedule): 12 April 2010
- Setting up of AMHS UA (Date): 19 May 2008
- Final Acceptance and Contract Signoff (Date): 16 May 2008
- AMHS transition (Date/Schedule): 23 March 2011

Remarks: AMHS operation with Singapore is successful since 23 March 2011. Regular operation is expected with Thailand, China, Nepal and Bangladesh in Q-3 2014. Response is awaited from remaining states for early implementation.