



International Civil Aviation Organization

**THE SECOND MEETING OF AERONAUTICAL COMMUNICATION
SERVICE (ACS) IMPLEMENTATION CO-ORDINATION GROUP
OF APANPIRG (ACSICG/2)**

Bangkok, Thailand, 20 - 22 May 2015

Agenda Item: 5 Review States' ATN/AMHS Implementation Status, Transition and Operational Issues

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.

1. Introduction

1.1. This paper presents the current status of ATN/AMHS implementation in India with BIS and BBIS states.

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

2. Discussion

2.1 In line with ICAO Asia/Pac Regional ATN/AMHS implementation plan, the AMHS operation with Singapore commenced on 23rd March 2011.

2.2 Between Q1/2011 and Q1/2014 India could not implement further AMHS circuits as India awaited readiness of other states.

3. Recent milestone achievements on AMHS implementation in India

3.1 Intensive mutual cooperation was carried out with other states with support of ICAO Asia/Pac regional office.

3.2 This paved the way for carrying out IOT/POT trials and successful signing of TMC with BIS and BBIS states.

3.3 AMHS implementation witnessed a significant progress between Q2/2014 and Q1/2015. Some of the notable achievements are appended below:

AMHS circuits: Operationalized

- ❖ **Mumbai-Bangkok:** AMHS circuit between Mumbai and Bangkok was regularly commissioned on 29 September 2014.
- ❖ **Mumbai – Kathmandu (Nepal):** AMHS circuit between Mumbai and Kathmandu was regularly commissioned on 2 June 2014.
- ❖ **Mumbai – Dhaka (Bangladesh):** AMHS circuit between Mumbai and Dhaka was regularly commissioned on 23 March 2015.

AMHS circuits: Trials completed, awaiting signing of TMC

- ❖ **Mumbai-Beijing:** POT on AMHS circuit between Mumbai and Beijing is already completed in two spells (July 2013 & Aug 2014). Subsequently, India has forwarded the draft TMC on 19 March 2015. India on its part has brought the signed TMC in the ACSICG 2 meeting for signature of Beijing and looks forward to commence regular operations shortly.
- ❖ **Mumbai – Colombo (Sri Lanka):** POT was successfully completed on 29 April 2015. India has already forwarded the draft TMC. Both the states are coordinating to sign bilateral TMC and commencing regular operation.
- ❖ **Mumbai-Karachi (Pakistan):** POT was completed on 17 March 2015. Subsequently India has already forwarded the draft TMC. India is awaiting response from Karachi regarding signing of TMC and commencing regular operation.
- ❖ **Mumbai-Muscat (Oman):** IOT is planned from 05th May 2015. The circuit is presently operated on AFTN over TCP/IP through AMHS gateway. After the successful IOT, plans are underway to sign TMC and commence regular operations.

4. AMHS circuits pending for implementation

4.1 AMHS implementation in respect of Nairobi (BIS) and Bhutan (BIS) are pending for want of response from concerned states. The update on these circuits is as under:

- ❖ **Mumbai – Nairobi (Kenya):** A new AFTN circuit between Mumbai and Nairobi through VPN is established and operational since 16 March 2015. Update on establishing ATN/AMHS circuit is awaited from Kenya.
- ❖ **Mumbai – Bhutan:** AFTN circuit between Bangkok - Paro and Mumbai – Paro (VPN) is in operation. Bhutan's plans to migrate on AMHS have not been shared with India so far.

5. Action by the Meeting

5.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) urge other states especially BIS states for expeditious establishment of AMHS connectivity at their end in order to reap the benefits of 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 and circuit commissioned on 29 September 2014
 - iii. Beijing, China (BBIS): Draft TMC agreed. To be signed shortly
 - iv. Kathmandu, Nepal (BIS) : TMC signed on 2 May 2014 and circuit commissioned on 02 June 2014
 - v. Dhaka, Bangladesh: TMC signed on 17 November 2014 and circuit commissioned on 23 March 2015
 - vi. Karachi, Bangladesh: Draft TMC forwarded to Pakistan and awaiting response
 - vii. Colombo, Sri Lanka: Draft TMC forwarded to Sri Lanka and awaiting response
 - Bilateral Test carried out as per the procedure prescribed(Date):
 - i. Singapore (BBIS) : IOT (13 October 2009) & POT (01 December 2009)
 - ii. Beijing, China (BBIS): IOT (July 2012) & POT (July 2013 & August 2014 in two spells)
 - iii. Karachi, Pakistan: IOT (14 November 2010) & POT (17 March 2015)
 - iv. Dhaka, Bangladesh: IOT (Sep 2014) & POT (Oct 2014)
 - v. Bangkok, Thailand: IOT (April 2013) & POT July 2013)
 - vi. Kathmandu, Nepal: Circuit commissioned
 - vii. Colombo, Sri Lanka: POT(April 2015)

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- 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: India is regularly coordinating with remaining states (China, Kenya, Bhutan) and update/readiness on implementation is awaited.
