



International Civil Aviation Organization

COM CO-ORDINATION MEETING
(Afghanistan, India, Islamic Republic of Iran and Pakistan)

16 – 17 December 2014, New Delhi, India



Agenda Item 3: Review the current circuit performance and operational status of AFS communication between States

**STATUS OF ATN/AMHS IMPLEMENTATION AND THE LEGACY
AFTN CIRCUITS OPERATION IN INDIA**

(Presented by India)

SUMMARY

This paper presents a summary of current status of ATN/AMHS implementation and intra/inter regional legacy AFTN circuits in India.

1. INTRODUCTION

1.1. This paper presents an overview on the current status of ATN/AMHS implementation and the intra/inter regional legacy AFTN circuit operation in India. **Attachment-1** and **Attachment-2** pictorially depict AMHS connectivity and legacy intra/inter regional AFTN circuits in India

2. DISCUSSION

2.1. **Update on AMHS Implementation:** India has implemented ATN/AMHS with dual stack ATN Router in Mumbai (Inter-Regional BBIS site) in April 2008.

2.2. The present AMHS implementation status in respect of BBIS and BIS states is appended below:

2.3. 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:** The circuit is in regular operation w.e.f 29th September 2014.

2.4. **BIS states' status:**

- ❖ **Mumbai-Karachi (Pakistan):** The trial operations on this circuit were completed in March 2012. Subsequently draft TMC sent to Pakistan for signing, however, response is awaited. It is 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 is continuously pursuing with Muscat to sign TMC and plan trials for early implementation and response is awaited.
- ❖ **Mumbai – Kathmandu (Nepal):** The circuit is in regular operation w.e.f 02-06-2014
- ❖ **Mumbai – Bangladesh:** Preoperational trials completed and bilateral TMC signed on 17-11-2014 at New Delhi. It has been planned to commission the circuit on 15th January 2015 for regular operation.
- ❖ **Mumbai – Colombo (Sri Lanka):** The circuit is configured on 03-12-2014 for trials and is presently under IOT.
- ❖ **Mumbai – Nairobi (Kenya):** Despite reminders, update on implementation is awaited from Kenya. Presently the AFTN circuit which was not functional due to VSAT issues is being revived on VPN connectivity for which trials are under process.
- ❖ **Mumbai – Bhutan:** Despite reminders, update on implementation is awaited from Paro.

3. **Update on intra & inter region legacy AFTN connectivity:** India has legacy AFTN system at 17 major locations covering pan-India domestic connections, besides intra/inter regional international circuits. The system is known as Automatic Message Switching System (AMSS). The main AMSS is also remotely interconnected with many small airports on TCP/IP to disseminate seamless distribution of ATS messages. The system has proven track record on reliability to ensure message integrity, data integration and timely delivery of messages.

4. AMSS (AFTN) has following inter and intra regional international circuits:

- ❖ Mumbai – Colombo (Si Lanka), Paro (Bhutan), Karachi (Pakistan), Muscat(Oman), Nairobi (Kenya)
- ❖ Chennai- Kuala Lumpur(Malaysia)
- ❖ Kolkata-Dhaka (Bangladesh)

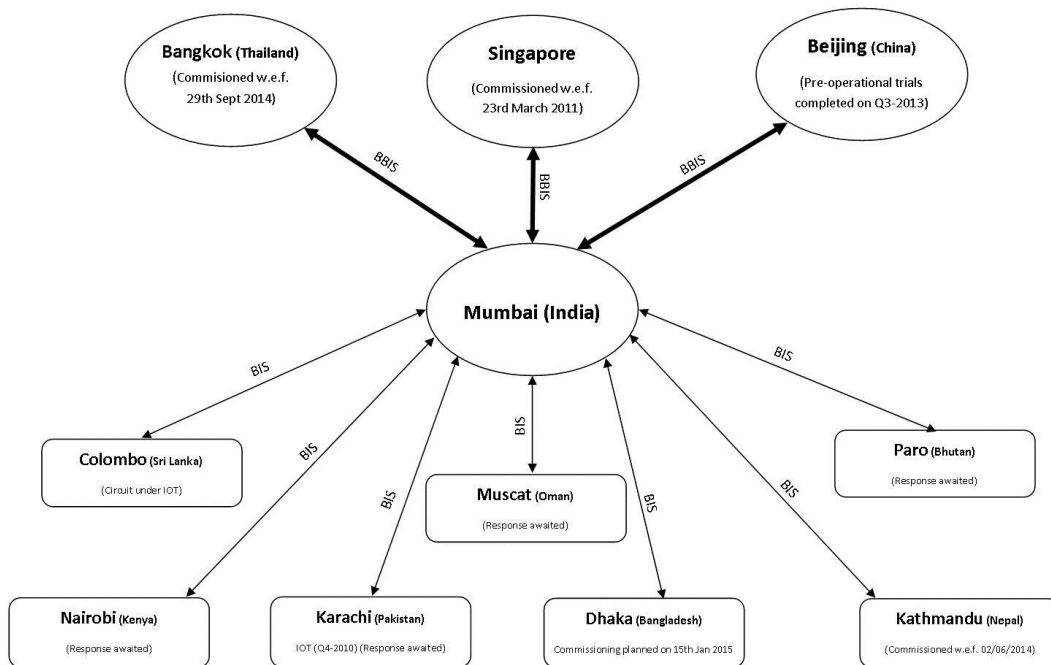
5. When AMHS connectivity with all BBIS and BIS states are operational, the intra/inter regional legacy AFTN circuits will be permanently withdrawn from operation.

6. In context, it may be mentioned that AFTN Routing Directory was developed and published in 2006 by ICAO Asia/Pacific Regional Office, Bangkok. Since then, no update is made to the routing plan. Accordingly, in the light of AMHS circuits implementation by many states and on withdrawal of many AFTN circuits in the region, the current AFTN routing table and AMC table need review to avoid flow of duplicate messages in the network.

7. ACTION BY THE MEETING

7.1 The meeting is invited to note the information contained in this paper

AMHS Connectivity—Mumbai (India)



ATTACHMENT-2

Legacy AFTN Inter/Intra Region Circuits

