



International Civil Aviation Organization

**SIXTEENTH MEETING OF THE  
COMMUNICATIONS/NAVIGATION/SURVEILLANCE AND  
METEOROLOGY SUB-GROUP (CNS/MET SG/16) OF APANPIRG**

Bangkok, Thailand, 23 – 27 July 2012

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**Agenda Item 3:           Aeronautical Fixed Service (AFS)**

**ATN/AMHS AND NEW FPL FORMAT-2012 IMPLEMENTATION STATUS  
IN INDIA**

(Presented by India – Airports Authority of India)

**SUMMARY**

This paper presents a summary of current state of ATN/AMHS and New FPL-2012 Format implementation in India.

**This paper relates to -**

**Strategic Objectives:**

**A: Safety** - *Enhance global civil aviation safety*

**C: Environmental Protection and Sustainable Development of Air Transport** - *Foster harmonized and economically viable development of international civil aviation that does not unduly harm the environment*

**Global Plan Initiatives:**

GPI-17 Data link applications

GPI-22 Communication infrastructure

**1. INTRODUCTION**

1.1. India completed ATN/AMHS implementation in April 2008 in Mumbai, which is a Inter-Regional BBIS site. The system has dual stacks ATN Router.

1.2. This paper updates the current status of ATN/AMHS and New FPL-2012 Format implementation in India.

**2. DISCUSSION**

2.1. AMHS is presently running on the latest version of application software.

2.2. The regular AMHS operation between Singapore and India (Mumbai) commenced with effect from 23 March 2011 and the performance of this circuit is satisfactory.

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2.3. The present status of ATN/AMHS implementation with other states is appended below:

- ❖ **Mumbai-Beijing:** The bilateral IOT on AMHS between India (Mumbai) and China (Beijing) commenced in the year 2011. Since the system used at both ends are of different make, some problems regarding message conversion were observed during trials held till March 2012. During continuous trials, most of the problems were resolved through mutual coordination. Recently, China has upgraded the software. As a result, the remaining problems are expected to be resolved. It is planned to commence Pre-operational trials in August 2012.
- ❖ **Mumbai-Bangkok:** India and Thailand had a fruitful bilateral meeting in the last week of March 2012 in Mumbai wherein both states had drawn up action plan including test schedule for early implementation. ATN Router connectivity and MTA to MTA physical connectivity were successfully established in May 2012. Both states are regularly coordinating to commence the trials at the end of July 2012.
- ❖ **Mumbai-Karachi:** India and Pakistan (Karachi) has successfully completed IOT in November 2010. Both states have now commenced trial operation on AMHS with effect from 30 March 2012. Karachi (Pakistan) is currently updating the AMC table. When the AMC table is updated at Karachi end, further steps will be taken to conduct pre-operational trials.
- ❖ **Mumbai-Muscat:** The circuit is presently operated on AFTN over TCP/IP through AMHS gateway. India has recently taken up with Oman Civil Aviation Authority for early AMHS implementation.
- ❖ **Status of AMHS implementation with other states:** The status of ATN/AMHS implementation is still expected from Sri Lanka, Nepal, Bhutan and Bangladesh. India has recently taken up with these states urging for early AMHS implementation. Kenya and Nepal positively responded. As per their plan, the AMHS implementation between Mumbai-Katmandu and Mumbai-Nairobi is expected to be completed by October 2012 and December 2012 respectively.

2.4. In line with ICAO plan of supporting global harmonization of ATN over IPS as specified in DOC 9880, India has planned to implement domestic AMHS system at Delhi, Chennai and Kolkata using TCP/IP connectivity. Action for tendering process is in progress.

2.5. **New FPL- 2012 Format implementation:** In order to implement Amendment-1 of PANS-ATM Doc-4444, India has completed the required software upgrades and internal testing in AFTN circuits and AMHS to handle new FPL-2012 Format. India is coordinating with other ANSPs to conduct external testing. In the meantime, Mumbai and Chennai successfully conducted the evaluation/testing of new FPL-2012 format with EUROCONTROL. Furthermore, Mumbai conducted external testing with Singapore and Karachi, Pakistan to evaluate the modified software and the tests results conforms to the requirement.

**3. ACTION BY THE MEETING:**

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

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