



**TENTH WORKING GROUP MEETING OF  
AERONAUTICAL TELECOMMUNICATION NETWORK  
IMPLEMENTATION CO-ORDINATION GROUP  
(ATNICG WG/10)**



Jaipur, India, 26 - 29 September 2011

---

**Agenda Item4: Ad-hoc Working Groups:**

- **Security and ATN Implementation relates issues**
  - **ACP working group status on Doc 9880 and Doc 9896**

**ATN/AMHS IMPLEMENTATION STATUS REPORT**

(Presented by India)

**SUMMARY**

This paper provides brief update on the current status of ATN/AMHS implementation and future roadmap to implement IP-based domestic ATN/AMHS system in India.

This paper relates to:

**Strategic Objectives:**

A – Safety

C – Environmental Protection and Sustainable Development of Air Transport

**Global Plan Initiatives:**

GPI 22 – Communication Infrastructure

**1. Introduction**

1.1 As a part of implementing ATN in the Indian sub-continent, India completed its AMHS system installation at Mumbai in April 2008 and had been taking up AMHS trials with neighboring BBIS and BIS States as and when system availability information is received from them.

1.2 This paper aims at updating the current status of ATN/AMHS implementation and the future roadmap in India to implement IP-based domestic ATN/AMHS at three other major international airports in Chennai, Kolkata and Delhi.

**2. Discussion**

2.1 The regular operation on AMHS interconnection between two BBIS states Singapore and India (Mumbai) commenced with effect from 23 March 2011. The performance of this interconnection is satisfactory.

2.2 As regards AMHS interconnection with other BBIS states, India has commenced the inter-operability test with Beijing in May 2011 by establishing SND CF/X.25 connectivity. The AMHS systems established at either ends are from different manufacturers. During these trials difficulties have been experienced regarding message conversion at either ends. This problem was however resolved after coordinated efforts by both states. Currently the Mumbai system is facing difficulty of viewing the received AFTN originated messages from Beijing which has been reported back for taking up the issues with respective system manufacturers. Both the states are closely co-operating with each other for the inter-operability tests to be a success. It is proposed to commence preoperational trials upon successful completion of these tests to take forward for regular commissioning of this interconnection. It is expected to commission this interconnection in 4<sup>th</sup> quarter of 2011.

2.3 In the case of other AMHS interconnections, the current status of implementation at Mumbai are as under:

- i) Following successful completion of preoperational trials, well coordinated efforts are being made to commence the regular operation with Pakistan (Karachi).
- ii) Though the circuit between Mumbai and Muscat (Oman) is presently operated on AFTN over TCP/IP through AMHS gateway, Oman Civil Aviation authorities are being coordinated for commencing AMHS trials at the earliest.
- iii) Meanwhile, India is keenly waiting to receive the readiness information from Thailand to conduct the AMHS interoperability tests between Mumbai and Bangkok.
- iv) India is also awaiting readiness from other neighboring states viz. Sri Lanka, Nepal, Bhutan and Kenya to commence the interoperability tests.

2.4 India has also planned for the implementation of domestic AMHS system at Delhi, Chennai and Kolkata using TCP/IP connectivity which has the considerable benefit of being a commercial-off-the-shelf and readily available architecture. The proposal is in line with ICAO plan of supporting global harmonization of ATN over IPS as specified in DOC 9880. Action for tendering process is being initiated. The target date of completion will be 30<sup>th</sup> June 2012.

2.5 Presently India has taken up the process of upgrading the existing AMHS application software version at Mumbai. The proposed up-gradation would include software provision for import function of AMHS-AMC files as well as incorporation of New FPL-2012 Format to meet the implementation of ICAO Amendment-1 of PANS-ATM Doc-4444. These software upgrades is expected be completed before end October 2011.

### **3. Action taken by the meeting**

3.1 The meeting is invited to note the status/update on the implementation of ATN/AMHS BBIS/BIS interconnections in India.

-----