International Civil Aviation Organization

Fifth Meeting of Aeronautical Telecommunication Network (ATN)

Transition Task Force of APANPIRG

Phuket, Thailand, 9 – 13 June 2003

Agenda Item 4:   **Review the development status of ATN technical documents**

**Status on Development of Document on the AMHS Message Routing
Between Message Transfer Agents**

(Presented by the Rapporteur of the ATNTTF Ad Hoc Working Group)

Summary

This paper presents the status on the work to define a set of routing policies for use between ATN AMHS Message Transfer Agents.

1   Introduction

As part of its work program, the Ad Hoc Working Group B has undertaken the development of planning documents for the routing of ATN AMHS messages through a connected set of MTAs. This short paper presents the status of the on-going work.

2   Overview of the Work

The Working Group has reviewed several drafts of AMHS routing policies and have began to reach consensus. The definition of routing policies is based on the need to: limit routing table length in MTAs sending messages to other MTAs, provide complete routing of all messages from their source to destination MTAs in a minimal number of "hops", and provide access control on MTAs connecting to other MTAs for the purpose of sending a message.

These three constraints have been agreed by the Working Group members at its last meeting. Detailed planning documents presenting the solution to the constraints is still under development. This document will provide details on the definition of access control lists in conjunction with routing of messages between MTAs.

The current views of the Ad Hoc Working Group members is that the development of policies that incorporate "default" MTA routes for messages to some MTAs may be employed. To

achieve this, there may be a requirement for the specification of the requirements on the "default" MTAs. This will be explored in the next draft of the MTA routing document.

3   Further Work

The current state of the document is such that a completed first draft outlining the principles of AMHS routing will be available at the next Working Group meeting. It is expected that an agreed final document may be available in less than one year.

4   Recommendations

The ATNTTF members are asked to take under consideration the status of the current work and to authorize the Ad Hoc Working Group B to continue progressing this effort.