International Civil Aviation Organization

**THE SIXTH MEETING OF AERONAUTCAL
TELECOMMUNICATION NETWORK (ATN)
IMPLEMENTATION CO-ORDINATION GROUP
OF APANPIRG (ATNICG/6)**

Seoul, Republic of Korea, 16 - 20 May 2011

Agenda Item 9:   **Review and update Performance Framework Objective 8 and Action Items**

**AIR TRAFFIC SERVICE MESSAGE HANDLING SERVICE (ATSMHS)
REQUIREMENTS DOCUMENTS**

(Presented by the Ad Hoc Requirements Group)

SUMMARY

During the review of Asia/Pacific ATNICG documents it was noted that the ATSMHS requirements were specified in several documents. An Ad Hoc group was formed to address this issue. This Working Paper presents a summary of the ICAO, EUROCONTROL, and Asia/Pacific requirements documents and presents the recommendations of the Ad Hoc group.

1.   Introduction

1.1   The Asia/Pacific ATN Transition Task Force (ATNTTF) and ATN Implementation Coordination Group (ATNICG) have developed requirements for the Air Traffic Service Message Handling Service (ATSMHS) in the Asia/Pacific Region in several documents. The Asia/Pac ATSMHS requirement documents are derived from ICAO documents and/or EUROCONTROL documents. Table 1 summarizes the ICAO or EUROCONTROL source documents and the Asia/Pac ATSMHS requirement documents.

1.2   Section 2 describes the ICAO reference documents and section 3 describes the EUROCONTROL documents.

1.3   Section 4 proposes that Asia/Pac have a single ATSMHS requirements document and notes that there are several options for updating the existing documents.

1.4   Section 5 recommends that the proposal for a single document be adopted and that a requirements drafting group be formed to decide on the update option and to proceed with the actual update.

2.   ICAO Documents

2.1   The original document of ICAO ATSMHS requirements used by Asia/Pac is Edition 2 of Doc 9705 published in 1999. The ICAO ATSMHS requirements profile the ISO/ITU standards and define requirements for an AFTN/AMHS gateway. The ATSMHS requirements were specified in Sub-Volume III, section 3.1.

2.2   ICAO published Edition 3 of Doc 9705 in 2002. This version eliminated the pass-through service, added the CAAS addressing option, and also added support for Directory, Security, and an AFTN/CDIN gateway function.

2.3   In 2007 ICAO began to convert Doc 9705 to Doc 9880. When published in Doc 9880 the previous version becomes obsolete.

2.4   In 2010 ICAO published Doc 9896. This document specifies requirements for an IPS-based ATN using IPv6 for internetworking.

3.   EUROCONTROL Documents

3.1   EUROCONTROL published the AMHS Manual in 2006. This document further profiles the ICAO ATSMHS specifications and contains requirements for testing. Beginning with Version 3.1 in 2009 the EUROCONTROL AMHS Manual references are to Doc 9880 rather than Doc 9705. The current version is 6.0 published in 2011.

Table 1 – Summary of Requirements Documents

Document	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
ICAO DOC 9705	Ed.2			Ed.3									
ICAO DOC 9880									Ed.1				
ICAO DOC 9896												Ed.1	
EUROCONTROL AMHS Manual								Ver. 1.0 ref 9705 Ed.3	Ver. 2.0	Ver. 3.0	Ver. 3.1 ref 9880	..	Ver. 6.0
EUROCONTROL AMHS Specification									Ver. 1.0	Ver. 2.0			
Asia/Pac AMHS ICD				Ver. 1.0 ref 9705 Ed.2					Ver. 2.0				
Asia/Pacific AMHS Description Document							Ver. 1.0 ref 9705 Ed.3						
Asia/Pacific AMHS Manual									Ver. 1.0 ref 9705 Ed.3	Ver. 2.0	Ver. 3.0		

In 2008 EUROCONTROL published the EUROCONTROL AMHS Specification. This document further profiles requirements in Doc 9880 and the AMHS Manual and makes certain optional items in the AMHS Manual mandatory (e.g. Directory).

4.   Asia/Pacific Documents

4.1   In Asia/Pac the requirements for ATSAMHS have been published in several manuals based on varying versions of Doc 9705 and the EUROCONTROL AMHS Manual. It is proposed that Asia/Pac adopt a single document that captures the ATSMHS requirements for the region and that is based on the latest ICAO specification. It is further proposed that the subject document only contain requirements; that is, it should not contain basic X.400 description and transition material. The proposed requirements document could be based on any of the existing documents.

5.   Recommendations

5.1   The Ad Hoc group recommends that the proposal for a single document be adopted and that an ATSMHS requirements drafting group be formed to:

> 1) decide on the update option; and

> 2) proceed with the actual update

The ATNICG is invited to consider these recommendations.

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