

*International Civil Aviation Organization*



**AMHS/SWIM SEMINAR AND THE SEVENTH MEETING OF  
AERONAUTICAL TELECOMMUNICATION NETWORK  
(ATN) IMPLEMENTATION CO-ORDINATION GROUP OF  
APANPIRG (ATNICG/7)**



Chiang Mai, Thailand, 5 – 9 March 2012

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**Agenda Item 7: Any other business**

**LIST OF ASSIGNMENT AREAS FOR  
COMPARISON OF ASIA/PAC AMHS ICD REQUIREMENTS  
AGAINST ICAO DOC 9880**

(Presented by ASIA/PAC AMHS Technical Specification Ad-hoc WG)

**SUMMARY**

This working paper proposes assignment areas for the ASIA/PAC AMHS Technical Specification Ad-hoc WG to complete the comparative analysis of the ASIA/PAC AMHS ICD against ICAO Doc 9880. The first analysis paper was presented at the 10th Working Group Meeting of the ATNICG at Jaipur, India, in September 2011.

**1. INTRODUCTION**

1.1 The ATNICG Ad-hoc Working Group has developed the “ASIA/PAC Technical Specification of the Air Traffic Services Message Handling System (AMHS)” as a replacement for “Asia/Pacific Regional Interface Control Document (ICD) for ATS Message Handling System (AMHS)”.

1.2 The ASIA/PAC Technical Specification of AMHS is a high level profile of the detailed requirements specified in ICAO Doc 9880. The AMHS ICD contains detailed requirements at the same level of ICAO Doc 9880. In order to ensure that no requirements were missed in transitioning from the ASIA/PAC AMHS ICD to the ASIA/PAC Technical Specification of AMHS, the ad-hoc Working Group recommended that the detailed PICS in the AMHS ICD be compared to the corresponding detailed PICS in Doc 9880.

1.3 The first working paper, which was presented at the Jaipur WG meeting in September 2011, analyzed Table 1.1 in the AMHS ICD against Tables 4-4 and 4-10 in Doc 9880.

1.4 This working paper identifies tables in the AMHS ICD and corresponding tables in Doc 9880 which remain to be examined in order to complete the overall comparative analysis.

## **2. DISCUSSION**

Appendix A contains a summary cross reference of Tables in the AMHS ICD and corresponding tables or sections in Doc 9880. The sections can be logically divided as follows:

- a) The Message Transfer Envelope requirements for IPM and IPN are specified in AMHS ICD Tables 1.1, 1.2, and 1.3 for IPM and in Tables 3.1, 3.2, and 3.3. Since the US completed the analysis of Table 1.1, it is recommended that the US complete the remaining sections.
- b) The X.400 requirements for IPM and IPM support for Basic ATS Message Service are specified in Tables 2.1 and 2.2 of the AMHS ICD. It is recommended that analysis of these two tables be assigned together.
- c) The requirements for IPN are specified in Tables 4.1 and 4.2 of the AMHS ICD. It is recommended that analysis of these two tables be assigned together.
- d) The requirements for Reports are specified in Tables 5.1 and 5.2 of the AMHS ICD. It is recommended that analysis of these two tables be assigned together.
- e) The requirements for Probes are specified in Tables 6.1 and 6.2 of the AMHS ICD. It is recommended that analysis of these two tables be assigned together.

## **3. ACTION TAKEN BY THE MEETING**

3.1 The meeting is invited to review the proposed areas for completing the comparative analysis. The meeting is invited to concur or suggest recommended changes to the assignment areas.

3.2 The ad-hoc Working Group is invited to assign responsibility for the above sections and to define the schedule for completing analysis of the remaining tables in the AMHS ICD.

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**Appendix A**

Asia/Pac AMHS ICD		ICAO Doc 9880		Assigned to:
Table Number	Name	Table Number	Name	
Table 1.1	Message Transfer Envelope	Table 4-4; Part 1	Message transfer for conveyance of an IPM; AMH11/A.1.4.2 Message transfer	Analysis Completed by USA
		Table 4-10; Part 1	Use of the Message Transfer Envelope; AMH11/A.1.4.2 Message transfer	ATNICG WG/10 WP/5
Table 1.2	Common Data Types	Table 4-4; Part 2	Message transfer for conveyance of an IPM; AMH11/A.1.5 Common data types	<i>Recommend USA</i>
		Table 4-10; Part 2	Use of the Message Transfer Envelope; AMH11/A.1.5 Common data types	
Table 1.3	Extension Data Types	Table 4-4; Part 3	Message transfer for conveyance of an IPM; AMH11/A.1.6 Extension data types	<i>Recommend USA</i>
		Table 4-10; Part 3	Use of the Message Transfer Envelope; AMH11/A.1.6 Extension data types	
Table 2.1	IPM	Table 4-3; Part 1; Part 2; Part 3; Part 4	IPM generation; AMH21/A.1.1 Supported information objects; AMH21/A.1.2 IPM heading fields; AMH21/A.1.3 IPM body; AMH21/A.1.3.1 Extended body part support	<i>To Be Assigned Country W</i>

		Table 4-9; Part 1; Part 2; Part 3; Part 4	Use of IPM elements; AMH21/A.1.1 Supported information objects; AMH21/A.1.2 IPM heading fields; AMH21/A.1.3 IPM body; AMH21/A.1.3.1 Extended body part support	
Table 2.2	IPM Support of the Basic ATS Message Service	Table 4-1	Use of AFTN message components	<i>To Be Assigned Country W</i>
		Table 4-5	Use of AFTN service message components	
Table 3.1	Message Transfer Envelope (IPN)	Table 4-4; Part 1	Message transfer for conveyance of an IPM; AMH11/A.1.4.2 Message transfer	<i>Recommend USA</i>
		Table 4-10; Part 1	Use of the Message Transfer Envelope; AMH11/A.1.4.2 Message transfer	
Table 3.2	Common Data Type	Table 4-4; Part 2	Message transfer for conveyance of an IPM; AMH11/A.1.5 Common data types	<i>Recommend USA</i>
		Table 4-10; Part 2	Use of the Message Transfer Envelope; AMH11/A.1.5 Common data types	
Table 3.3	Extension Data Types	Table 4-4; Part 3	Message transfer for conveyance of an IPM; AMH11/A.1.6 Extension data types	<i>Recommend USA</i>

		Table 4-10; Part 3	Use of the Message Transfer Envelope; AMH11/A.1.6 Extension data types	
Table 4.1	IPN	Table 4-6; Part 1; Part 2	RN generation; AMH21/A.1.1 Supported information objects; AMH21/A.1.4 IPN fields	<i>To Be Assigned</i>  <i>Country X</i>
		Table 4-12; Part 1	Use of RN fields; AMH21/A.1.4 IPN fields	
Table 4.2	OR Descriptor	Table 4-6; Part 3	RN generation; Common data types	<i>To Be Assigned</i>  <i>Country X</i>
Table 5.1	Report Transfer Envelope	Table 4-16; Part 1	Generation of AMHS report; AMH11/A1.4.3 Report transfer	<i>To Be Assigned</i>  <i>Country Y</i>
Table 5.2	Common Data Types	Table 4-16; Part 2	Generation of AMHS report; AMH11/A1.5 Common data types	<i>To Be Assigned</i>  <i>Country Y</i>
Table 6.1	Probe Transfer Envelope	Section 4.5.5	Action upon receipt of AMHS probe	<i>To Be Assigned</i>  <i>Country Z</i>
Table 6.2	Common Data Type	Section 4.5.5	Action upon receipt of AMHS probe	<i>To Be Assigned</i>  <i>Country Z</i>