

International Civil Aviation Organization



**THE FIRST MEETING OF AERONAUTICAL
COMMUNICATION SERVICE (ACS)
IMPLEMENTATION CO-ORDINATION GROUP
OF APANPIRG (ACSICG/1)**



Seoul, Republic of Korea, 13 - 16 May 2014

Agenda Item 4: Review States' ATN/AMHS Implementation Status, Transition and Operational Issues:

UPDATES TO THE AMHS INFORMATION REGISTRATION FORMS

(Presented by AEROTHAI, Thailand)

SUMMARY

This working paper presents a comparison of the EUROCONTROL and ASIA/PAC forms for registering AMHS address information. It describes the benefit of using the latest forms associated with the AMC database. It also describes use of the latest NSAP addressing plan for entering NSAP addresses.

1. Introduction

1.1 The ASIA/PAC AMHS NAMING REGISTRATION FORM was used in the region since the first stage of AMHS implementation in 2005. This form follows the ASIA/PACIFIC ATS MESSAGE HANDLING SYSTEM (AMHS) NAMING PLAN. This form also has examples of NSAP Addresses that follow an earlier version of the ASIA/PAC ATN Network Service Access point (NSAP) Addressing Plan. The latest (Third Edition) of this plan changes byte 5 of an NSAP address to a value of "91" for all members of ASIA/PAC.

1.2 Starting in 2009 the ATNICG decided to use the EUROCONTROL developed AMC database. EUROCONTROL developed Appendix F – Pro forma for modification of AMHS MD Identifier and/or Addressing Scheme (major change) of AMC as a registration form to input address information into AMC.

1.3 The EUROCONTROL form adopts a different convention for AMHS naming.

1.4 The following papers are concerned with registration of AMHS address information:

- a) ICAO: The ASIA/PAC AMHS NAMING REGISTRATION FORM (Second Edition - APRIL 2005);
- b) EUROCONTROL AMC: The Appendix F – Pro forma for modification of AMHS MD Identifier and/or Addressing Scheme (major change) of AMC;
- c) AMC Information Form

1.5 The following articles are related ASIA/PAC planning documents:

- d) ICAO: The ASIA/PACIFIC ATS MESSAGE HANDLING SYSTEM (AMHS) NAMING PLAN (Third Edition – April 2005);
- e) ICAO: ASIA/PAC ATN Network Service Access point (NSAP) Addressing Plan (Third Edition – ATNICG/5 Working Paper 20)

1.6 Document a), b), and c) are attached for convenience as attachment A, B, and C respectively. Document d) and e) may be retrieved from the ICAO Bangkok web site.

2. Discussion

2.1 Appendix F – Pro forma of EUROCONTROL AMC and the AMC Information Form are the forms which all AMC members must send to the ASIA/PAC focal point contact to enter AMHS addressing information into the AMC database.

2.2 The procedure of ASIA/PAC focal point of contact to manage this information when receiving these forms is:

2.2.1 Check all information with documents concerned

2.2.2 Apply The Appendix F – Pro forma to EUROCONTROL AMC Operation and also Send copy to Asia/Pacific ICAO (CC E-mail to Mr. Li Peng)

2.2.3 Input all information from The Appendix F – Pro forma and AMC Information Form into the AMC Database following the AIRAC Cycle.

2.3 The benefit of both Appendix F – Pro forma and The AMC Information Form is:

2.3.1 Members have the latest forms to send to the focal point contact.

2.3.2 The information is unique information for ICAO and AMC Database. (Please feel free to advise if any additional information needed to fill in The AMC form.)

3. Recommendation

3.1 It is recommended that the ASIA/PAC AMHS NAMING REGISTRATION FORM no longer be used by ASIA/PAC members.

3.2 It is recommended that The ASIA/PACIFIC ATS MESSAGE HANDLING SYSTEM (AMHS) NAMING PLAN (Third Edition – April 2005) be updated to reflect the naming convention adopted by EUROCONTROL.

3.3 When entering NSAP addresses in AMC Information Form members are advised to follow the Third Edition of the ASIA/PAC ATN Network Service Access point (NSAP) Addressing Plan which requires that byte 5 of an NSAP address be assigned a value of “91”

4. Action by the Meeting

The meeting is invited to:

- a) consider the recommendations contained in this paper; and
- b) discuss any relevant matters as appropriate.

ATTACHMENT/ANNEX/FIGURE

- A. ICAO: The ASIA/PAC AMHS Naming Registration Form (Second Edition - APRIL 2005);
- B. EUROCONTROL AMC: The Appendix F – Pro forma for modification of AMHS MD Identifier and/or Addressing Scheme (major change) of AMC; and
- C. AMC Information Form.



**INTERNATIONAL CIVIL AVIATION ORGANIZATION
ASIA AND PACIFIC OFFICE**

ASIA/PAC AMHS NAMING REGISTRATION FORM

Second Edition – April 2005

AMHS NAMING REGISTRATION FORM
Table 1a - AMHS MTA and User Agent Register

Explanation of the Table 1a

Legend:	
Contracting State :	Authority administering the MTA.
MTA ID :	Numbering scheme where each MTA is assigned with an ordinal number.
User Agent ID :	Sub-ordinate number assigned to the User Agent Name registered under a MTA.
Addressing scheme :	Addressing scheme recommended by ATN SARPS. Values are limited to XF or CAAS.
Country-name :	The “C” value of AMHS MD identifier.
Administration-domain-name :	The “A” value of AMHS MD identifier.
Private-domain-name :	The “P” value of AMHS MD identifier.
Organization name :	The “O” value of attributes identifying an geographical unit or an organization within MD. The value is fixed for XF addressing scheme. (O=AFTN)
Organization-unit-name-1 :	The “OU1” value of attributes identifies 4-letter location indicator within the organization “O”. Depending upon the prevailing condition, some letters can be represented by wildcard (*).
User Agent (Direct User only) :	The “CN” value (Common Name) of attributes identifies a User Agent (UA) i.e. direct user within MD. It is presented in 8-character AFTN address format to enable the UA to receive message from AFTN indirect user. This field will be blanked when the OU1 is not equipped with UA.
Description of user :	Brief description of the UA, the direct user. NOC = network operating centre

AMHS Naming Registration Form

Legend:	
MTA Name :	The name of the MTA hosting the AMHS user. (Used in AMHS binds.)
NSAP address :	NSAP address of the MTA. The NSAP address assignments should follow the ICAO recommendation in ASIA/PAC ATN Network Service Access Point (NSAP) Addressing Plan
TSEL value :	TSEL value of the MTA.
Capability :	The type of services supported by the MTA and the edition of relevant document (the number in parenthesis). Basic Service =A, File Transfer Body Part =B, Directory Service =C, Security = D; System Management = F, AMHS/AFTN Gateway=H

AMHS Naming Registration Form

Table 1a – AMHS MTA and User Agent Register

a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
Contracting State	MTA ID	User Agent ID	Addressing scheme	Country-name	Administration - domain-name	Private-domain -name	Organization-name	Organization-unit-name-1	User Agent (Direct User only)	Description of user	MTA Name	NSAP address	TSEL value	Capability
			CAAS/XF	(C)	(A)	(P)	(O)	(OU1)	(CN)					
China	1		CAAS	XX	ICAO	China	ZBBB	ZB*			zbmta	47002781815A4200010101020202028002010001	MHS	A(2) C(2)
CAAS with multiple MTA								ZS*						
								ZW*						
								ZY*						
								ZU*						
		1.1						ZBBB	ZBBBYFUA	NOC operator				
		1-2						ZBAA	ZBAAYMUA	MET UA				
		1.3						ZSSS	ZSSSYFUA	NOC operator				
	2		CAAS	XX	ICAO	China	ZGGG	ZG*			zgmta	47002781815A4200010101020202028002010001	MHS	A(2), C(2)
								ZH*						
								ZL*						
								ZP*						
								ZJ*						
		2.1						ZGGG	ZGGGYFUA	NOC Operator				
		2.2						ZJHK	ZJHKYFUA	NOC Operator				
Hong Kong, China	3		CAAS	XX	ICAO	Hong Kong	HKGCAD	VH*			hkgmta	4700278181564800010101020202028002010001	MHS	A(2), B(1), C(2)
(CAAS with single MTA)		3.1						VHHH	VHHHYFUA	NOC operator				
		3.2						VHHH	VHHHYFUB	NOC operator				
		3.3						VHHH	VHHHCPAU	UA at CPA				

AMHS Naming Registration Form

a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
Contracting State	MTA ID	User Agent ID	Addressing scheme	Country-name	Administration - domain-name	Private-domain -name	Organization-name	Organization-unit-name-1	User Agent (Direct User only)	Description of user	MTA Name	NSAP address	TSEL value	Capability
			CAAS/XF	(C)	(A)	(P)	(O)	(OU1)	(CN)					
Macau China	4		XF	XX	ICAO	VM	AFTN				mcumta	47002781815648000101010202028002010001	MHS	A(2)
Thailand	5		XF	XX	ICAO	VT	AFTN				thmta	47002781815654000101010202028002010001	MHS	A(2)
Philippines	6		XF	XX	ICAO	RP	AFTN				phmta	47002781815651000101010202028002010001	MHS	A(2)

Important Note: All data shown in the forms are for illustration only, not the actual data for operational use.

AMHS NAMING REGISTRATION FORM
Table 1b - AMHS MTA Administrator Contact List

Explanation of the Table 1b

Legend:	
Contracting State :	Authority administering the MTA.
MTA ID :	Numbering scheme where each MTA is assigned with an ordinal number.
MTA Name	The name of the MTA hosting the AMHS user. (Used in AMHS binds.)
Point of contact :	Name of person responsible for the administration of the MTA.
Contact e-mail address :	E-mail address of the Office or person responsible for the administration of the MTA.
Contact telephone number & Fax number:	Telephone number of the Office or person responsible for the administration of the MTA.
Contact mailing address	Official correspondence address of the Office or person responsible for the administration of the MTA.

AMHS Naming Registration Form

Table 1b – AMHS MTA Administrator Contact List

a	b	c	d	e	f	g
Contracting State	MTA ID	MTA Name	Point of contact	Contact e-mail address	Contact telephone number & Fax Number	Contact mailing address
China	1	bjmta	Mr. LI Xin	Lixin@atmb.net.cn	861-0-87786912 861-0-87786014 (Fax)	12# East San-han Road middle, Chaoyang district, Beijing, China
	2	zjmta	Mr. Zhang sheng-zhi	Zhangsz@atmb.net.cn	862-0-86122803 862-0-86122310 (Fax)	Air Traffic Management Bureau of Middle & Southern Region of China, Bai Yun International Airport, Guangzhou, China
Hong Kong, China	3	hkgmta	Mr. Steven Chan	wmchan@cad.gov.hk	(852) 29106211 (852) 29101160 (Fax)	2/F, Telecommunications Unit, Air Traffic Control Complex, Hong Kong International Airport, Hong Kong, China
Macau China	4.	mcumta	Mr. Freeman V. T. Lo	Aacm@macau.ctm.net	(853) 511213 (853) 511200 (Fax)	Rue. Dr. Pedro José Lobo, 1-3 Edificio. Luso International, 26° andar, MACAO, China
Thailand	5	thmta	Mr. Somnuk Rongthong	somnuk@aerothai.co.th	66-0-2285 9904 66-0-2285 0240 (Fax)	102 Ngamduplee, Tungmahamek, Sathorn, Bangkok 10120, Thailand
Philippines	6	phmta	Mr. Jose. J. Luna	jet_luna@hotmail.com	632-8799191 632-8799110 (Fax)	Air Transportation Office, Manila AFS, 2/F AFC Building, Old MIA Road, Pasay City 1300, Philippines

Important Note: All data shown in the forms are for illustration only, not the actual data for operational use.

E. Appendix F – Pro forma for modification of AMHS MD Identifier and/or Addressing Scheme (major change)

Part 1: Modification of PRMD-name Registration

State:

Nationality letters:

PRMD-name registered before modification:

Please consider the following options in case of modification:

Option A: the PRMD-name to be the following reserved identifier.

Option B: the PRMD-name to be modified as proposed below, after validation by the Secretariat.

Option C: the PRMD-name to remain unchanged (only the addressing scheme is modified, see Part 2).

Please specify your choice (A, B or C):

If choice is B, please specify the proposed PRMD-name identifier:

P =

Proposed applicability date for the modification (an AIRAC date):

Name of organization managing the AMHS MD (if applicable):

The contact point:

Postal/electronic mail address and telephone/fax number:

Additional comments:

**Pro forma for modification of AMHS MD Identifier and/or
Addressing Scheme (major change) page - 2 -**

Part 2: Modification of declaration of addressing scheme

State:

Nationality letters:

PRMD-name registered before modification:

Addressing scheme declared before modification:

Please select one of the following options in case of modification:

Choice A: AMHS user addresses to be allocated by application of the (recommended) CAAS addressing scheme in the AMHS MD operated in the above State.

Choice B: AMHS user addresses to be allocated by application of the (default) XF addressing scheme in the AMHS MD operated in the above State.

Choice C: the addressing scheme to remain unchanged (only the PRMD-name is modified, see Part 1).

Please specify your choice (A, B or C):

If choice is A (CAAS), please fill in the following table for all location indicators found in Doc 7910 under the above nationality letters.

Organization-name for the group of locations	location indicators

(table to be expanded as appropriate)

**Pro forma for modification of AMHS MD Identifier and/or
Addressing Scheme (major change) page - 3 -**

Proposed applicability date for the modification (an AIRAC date):

Name of organization managing the AMHS MD (if applicable):

The contact point:

Postal/electronic mail address and telephone/fax number:

END of Appendix F

Part 1 : Person & Contact & COM Centre

- 1. Country:
- 2. Location:
- 3. COM Operator:
- 4. First name:
- 5. Sure name:
- 6. Local title:
- 7. Phone:
- 8. Fax:
- 9. E-mail:
- 10. Telex:
- 11. AFTN:
- 12. OPMET:
- 13. SITA:
- 14. COM Postal Address:
.....
.....
- 15. Remark:

AMC Network Inventory

Part 2 : AFTN Capabilities

Please select one of the following options below:

1. Ax – VCG Mapping Capability
 - Automatic
 - Manual
2. Ax – VCG Mapping Actual Used
 - Automatic
 - Manual
3. Ad – Ax Mapping Capability
 - Automatic
 - Manual
4. Ad – Ax Mapping Actual Used
 - Automatic
 - Manual
5. Long Message Processing
 - Yes
 - No

Part 3 : AMHS Capabilities

ATS Message Server

- 1. MTA Name:
- 2. Maximum Content Length:
- 3. Extended Encoded Information type in Support of:
Please select on the following options
 - IA5
 - FTBP
 - General Text Body Part (ISO646)
 - General Text Body Part (ISO8859-1)
- 4. Message Lifetime (Minutes)
 - Urgent:
 - Non Urgent:
 - Normal:
 - Report:

AFTN/AMHS Gateway

- Currently Authorized Message Length :
- Maximum Number of Address :
- Converted General – Text Body Part
Please select on of the following options
 - ISO646
 - ISO8859-1
- 5. Protocol Capabilities
 - Protocol
 - P – SEL
 - S – SEL
 - T – SEL
 - Network Address (NSAP or IP) :
.....
- 6. Operational Status:
 - Operate
 - Non-operate

Part 4 : Connections

Existing Connections (Only International Connections)

1. Remote COM :
2. Protocol :
 - AMHS/TPO-X.25
 - AFTN X.25
 - AMHS
 - AMHS/TCP-IP
 - CIDIN PVC
 - CIDIN SVC
 - CONV. AFTN
 - WMO
3. Network Address :
4. Link type :
5. Capacity :
6. Supplier :
7. Circuit Type:
 - L-Landline
 - M-Multiplexer
 - N-Network
 - R-Radio
 - S-Satellite
8. Active / Not Active
9. Remark :

***1 sheet for 1 connection**

Part 4 : Connections

Planned Connections (Only International Connections)

1. Remote COM :
2. Protocol :
 - AMHS/TPO-X.25
 - AFTN X.25
 - AMHS
 - AMHS/TCP-IP
 - CIDIN PVC
 - CIDIN SVC
 - CONV. AFTN
 - WMO
3. Network Address :
4. Link type :
5. Capacity :
6. Supplier :
7. Circuit Type:
 - L-Landline
 - M-Multiplexer
 - N-Network
 - R-Radio
 - S-Satellite
8. Active / Not Active
9. Remark :

***1 sheet for 1 connection**