



AMHS Profile for OPMET IWXXM data exchange

AFSG Planning Group



Appendix H to the EUR AMHS Manual

- New Appendix to the EUR AMHS Manual presented at AFSG/21 meeting (24-28 April 2017)
- Appendix H: Application/Service oriented AMHS Profiles
- Purpose:
 - The definition of specific AMHS profiles for the support of given applications/ services, acting in limited environment, using ATS Message Handling Service
- AFSG/21 adopted the proposed solution and the amendment proposal of the EUR AMHS Manual



AMHS profile for OPMET IWXXM data exchange

- Dedicated chapter in Appendix H for the AMHS profile for OPMET IWXXM data exchange
 - Scope of the profile
 - Definition of the profile
 - Proposed Conformance Tests



AMHS profile for OPMET IWXXM data exchange

- Scope of the profile
 - AMHS UAs submitting and/or receiving OPMET data in IWXXM format through a P2/P3 or P2/P7 interface, as part of:
 - National OPMET Centre (NOC)
 - Regional OPMET Centre (ROC)
 - Interregional OPMET Gateway (IROG)
 - Regional OPMET Databank (RODB)
 - Any terminal or system receiving or requesting OPMET data in IWXXM format
 - Assumptions:
 - The MET Domain may add further data types to the IWXXM without affecting the AMHS profile
 - Data compression will always be performed in the MET domain
 - The MET Domain will define procedures for the submission of RQX messages to RODBs



AMHS profile for OPMET IWXXM data exchange

- Definition of the profile
 - Level of service
 - Exclusive use of the extended service
 - IPM-Heading-extensions (IHE)
 - ATS priority
 - Filing Time
 - OHI
 - File Transfer Body Part (FTBP)
 - Number of body parts
 - Exactly one body-party, which is an FTBP

Selection of IPM heading parameters and values

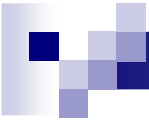
<i>Ref</i>	<i>Element</i>	<i>Doc 9880 static support (Extended Service) Orig/Rec.</i>	<i>Doc 9880 reference</i>	<i>Dynamic action upon generation of IPM message</i>	<i>Value and/or comments</i>
Part 1: AMH21/A.1.2 IPM heading fields					
1	this-IPM	MM	3.1.2.2.1, 3.1.4.2.1 (AMH21 support)	G	
2	originator	MM		G	Address of the originating OPMET system (MET switch)
3	authorizing-users	O/M		X	
4	primary-recipients	MM		G	Recipient addresses are populated by the MET switch based on its routing table (EUR Doc 033, ref. [1] section 4.1.4)
5	copy-recipients	MM		X	
6	blind-copy-recipients	O/M		X	
7	replied-to-IPM	MM		X	
8	obsoleted-IPMs	O/M		X	
9	related-IPMs	O/M		X	
10	subject	MM		G	This field shall carry the TTAAtCCCCYYGGgBBB part of the filename of FTBP. It is assumed that the subject field is easier to access for human operators in case of retrieval or analysis of transferred messages
11	expiry-time	O/M		X	
12	reply-time	O/M		X	
13	reply-recipients	O/M		X	
14	importance	O/M		X	The receiving UA shall assume that this field takes its default value ("normal")
15	sensitivity	O/M		X	
16	auto-forwarded	O/M		X	

Ref	Element	Doc 9880 static support (Extended Service) <i>Orig/Rec</i>	Doc 9880 reference	Dynamic action upon generation of <i>IWXXM</i> message	Value and/or comments
Part 1: AMH21/A.1.2 IPM heading fields					
..				
17	extensions	MM	3.3.4.1	G	
17.6	authorization-time	MM	3.3.4.2	G	Equivalent to filing time
17.1 2	originators-reference	MM	3.3.4.3	X	To avoid confusion with the use of this field in the <i>IHE</i> context (where it is carrying data converted to/from <i>AFTN OHJ</i>)
17.1 3	precedence-policy-identifier	MM	3.3.4.5, 3.3.4.6 and 3.3.4.7	G	<i>OID</i> value {iso (1) identified-organisation (3) <i>icao</i> (27) <i>amhs</i> (8) parameters (0) <i>amhs</i> -precedence-policy (0)} (see Doc 9880, ref. [5], 3.3.4.7)
Part 4: AMH21/A.1.5 common data types					
1	<i>RecipientSpecifier</i>				
1.2	notification-requests	MM	3.3.6	X	
1.2.1	<i>tn</i>	MM	3.3.6	X	<i>IWXXM</i> never use priority SS
1.2.2	<i>nm</i>	MM		X	Doc 9880 does not foresee the presence of <i>nm</i> -request
1.4	recipient-extensions	MM	3.3.4.1	G	
1.4.3	precedence	MM	3.3.4.8	G	Equivalent to priority GG: precedence value = 28 (<i>TAF, METAR/SPECI</i> , and also in case of <i>AMD, COR</i> or <i>RTD</i> reports/bulletins) Equivalent to priority FF: precedence value = 57 (<i>AIRMET, SIGMET, VAA, TCA</i>)
2	<i>ORDescriptor</i>				
2.1	formal-name	M1/M1		G	used for originator-address and recipient-addresses
M = mandatory support (static support) M1 = mandatory O/R name minimal support (static support) O = optional support (static support) or optionally generated (dynamic behaviour) G = generated X = not used					

File Transfer parameters

<i>Ref</i>	<i>Element</i>	<i>European ATC Messaging Service Profile - static support</i> <i>Orig/Req</i>	<i>European ATC Messaging Service Profile - reference</i>	<i>Dynamic action upon generation of MTTM message</i>	<i>Value and/or comments</i>
1	related-stored-file	-			
2	contents-type				
2.1	document-type				
2.1.1	document-type-name	M/M	A.2.4.2.1	G	default <i>OID</i> value: 1.0.8571.5.3 { <i>iso</i> (1) standard(0) 8571(8571) document-type(5) unstructured-binary(3)}
3	environment				
3.1	application-reference				
3.1.1	registered-identifier	O/M	A.2.4.2.2 and A.2.4.2.6	G	<i>OID</i> value: 1.3.27.8.1.2 { <i>iso</i> (1) identified-organisation (3) <i>icao</i> (27) <i>atn-amhs</i> (8) application (1) digital-met (2)}
3.4	user-visible-string	O/M	A.2.4.2.6	G	"Digital MET"
4	compression	-			See para 3.2.3.4.2 below
5	file-attributes				
5.1	pathname				
5.1.1	incomplete-pathname	O/M	A.2.4.2.3	G	bulletin file name as specified in EUR Doc 033 , ref. [1] , section 5.1.4
5.5	date-and-time-of-last-modification	O/M	A.2.4.2.4	O	
5.13	object-size				
5.13.2	actual-values	O/M	A.2.4.2.5	O	
6	extensions	-			

M = mandatory support (static support)
O = optional support (static support) or optionally generated (dynamic behaviour)
G = generated
X = not used



Selection of used P3/P1 envelope parameter values

- IPMs with precedence value of 28
 - priority abstract-value 'non-urgent'
- IPMs with precedence value of 57
 - priority abstract-value 'normal'
- Encoded-Information-Types in P3 submission-envelope
 - shall be limited to the OID value for FTBP {joint-iso-itu-t(2) mhs(6) ipms(1) eit(12) file-transfer(0)}



AMHS profile for OPMET IWXXM data exchange

- Proposed Conformance Tests

- Profile specific submission tests

- Profile specific delivery tests

- Submission and delivery tests according to Appendix D-UA



Q&A
Thank you