



AMHS Documentation Inventory

Inventory of AMHS Documentation used in EUR	
Document Reference:	EUR AMHS Documentation, AMHS Documentation Inventory
Author:	Planning Group
Revision Number:	Version 12.1
Date:	19/04/2023
Filename:	AMHS Documentation Inventory_v12.1.doc

Document Control Log

Edition	Date	Comments	section/pages affected
0.1	15/02/2008	Creation of the document on base of AFSG/PG#30 WP08 and subsequent comments, approved by AFSG/11 meeting	all
0.2	18/03/2009	Update of document versions available, replacement of Doc 9705 by Doc 9880	all
1.0	18/03/2009	As approved by AFSG 12	
1.1	29/10/2010	Update of document references and document versions available, removal of references related to Doc 9705	all
1.2	10/12/2010	Update of document according to comments received by PG members during PG 41 meeting	all
2.0	15/04/2011	As approved by AFSG/15	
2.1	05/03/2012	Update of document references and document versions available	all
3.0	30/04/2012	As approved by AFSG/16	
3.1	29/03/2013	Update of document references and document versions available	all
4.0	29/04/2013	As approved by AFSG/17	
4.1	18/03/2014	Update of document versions available	all
5.0	11/04/2014	As approved by AFSG/18	
5.1	02/04/2015	Update of references, document versions available and content of Table in Section 6	p.6, Section 6
6.0	28/04/2015	As approved by AFSG/19	
6.1	11/03/2016	Update of section 6	p.13
6.2	11/03/2016	Inclusion of reference to ICAO Doc 9896 2 nd edition	p.9
7.0	26/04/2016	As approved by AFSG/20	

7.1	21/03/2017	Update of document references and document versions available	p.7, 8, 10, 11, 16, 17
8.0	27/04/2017	As approved by AFSG/21	
8.1	12/12/2018	Update of document references and document versions available	p.10, 11, 12, 17, 18, 20
9.0	27/04/2018	As approved by AFSG/22	
9.1	15/02/2019	Update of document references and document versions available, incorporating comments received at PG/M74	p.7, 11
9.2	07/03/2019	Update entry A6 of section 3 to reflect renaming of ENRD to AMRD, as discussed during AFSG/23	p.8, 9
10.0	07/03/2019	As approved by AFSG/23	
10.1	15/01/2020	Adaption: According to COG/74&RCOG/11 Decision /4, Approval of AFS to SWIM Transition Task Force (AST TF) Terms of Reference (ToR) and coherent Work Programme, the Author of the Inventory of AMHS Documentation used in EUR changed from “AFSG PG” to “AST PG”. Update of document references and document versions available	all p.7
11.0	12/11/2020	As approved by AST TF/01	
11.1	18/08/2021	Update entries A1, A2, S7 and S12	p.7, 16, 17
12.0	20/10/2021	As approved by AST TF/02	
12.1	19/04/2023	Provide details in entries A1 and A2	p.7

Scope of the Document

This document provides an inventory of the documents applicable in the context of AMHS implementation in Europe.

The goal of this document is to serve as a common reference for:

- a) discussing documentary issues within AST TF and more generally EUR ICAO bodies;
- b) EUR ANSPs who need a reference list for AMHS implementation and operation.

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1 Introduction

1.1 The document provides an inventory of the documents applicable in the context of AMHS implementation in Europe.

1.2 The goal of this document is to serve as a common reference:

- a) when discussing documentary issues within AST TF and more generally EUR ICAO bodies;
- b) for EUR ANSPs who need a reference list for AMHS implementation and operation.

2 Contents of the inventory

2.1 The inventory provides an exhaustive list of the documents applicable to AMHS implementation and operation:

- 1. Applicable documents referencing directly AMHS (Ann[.m])
- 2. Applicable documents indirectly or not explicitly related to AMHS (Inn[.m])
- 3. Documents in preparation and/or not officially published (Pnn[.m])
- 4. (External) base standards referenced by AMHS standards and specifications (Snn[.m])

2.2 The list in the inventory is considered as relatively complete, as far as AMHS is concerned. However, many fields of the table are still empty. A provisional observation made during the establishment of the list is that for many documents, applicability rules and dates as well as formal status are difficult to identify.

3 Applicable Documents with direct Reference to AMHS

Id	Source	Reference	Title	Latest published Edition	Status	Geographical scope	Applicability date	Comments
A1	ICAO	Annex 10, Volume II	Aeronautical Telecommunications (Communication Procedures including those with PANS status)	7 th Edition, July 2016, incorporating Amendments 44-90, plus Amendments 91, 92	Standards and Recommended Practices (SARPs)	Global	05/11/2020	
A2	ICAO	Annex 10, Volume III, Part I	Aeronautical Telecommunications (Digital Data Communication Systems)	2 nd Edition, July 2007, Reprinted, incorporating Amendments 70-90, plus Amendment 91	Standards and Recommended Practices (SARPs)	Global	03/11/2022	
A2.1		Chapter 1	Definitions					
A2.2		Chapter 3	Aeronautical Telecommunication Network					

Id	Source	Reference	Title	Latest published Edition	Status	Geographical scope	Applicability date	Comments
A3	ICAO AST TF	EUR Doc 020	EUR AMHS Manual	Latest Version	ICAO Regional Manual EANPG Conclusion 48/25 : “That States in the EUR Region be invited to use the EUR AMHS Manual as the basic Regional reference document for AMHS implementation”	Regional		Downloadable from ICAO EUR/NAT Website
A4	ICAO AST TF	EUR Doc 021	ATS Messaging Management Manual	Latest Version	ICAO Regional Manual	Regional with extension to other Regions (External COM Centres)		Downloadable from ICAO EUR/NAT Website
A5	ICAO	Doc 7754	Air Navigation Plan - European Region Volume I, Part III- CNS Volume II, Part III- CNS	Working copy		Regional		Downloadable from ICAO EUR/NAT Website
A6	ICAO AST TF		ATS Messaging Routing Directory					

Id	Source	Reference	Title	Latest published Edition	Status	Geographical scope	Applicability date	Comments
A6.1	ICAO AST TF		Part I – Documentation	Latest Version				Downloadable from AMC
A6.2	AMC		Part II - Regional Routing Tables	Periodic on each AIRAC date				Downloadable from AMC
A6.3	AMC		Part III - Regional Network Inventory	Periodic on each AIRAC date				Downloadable from AMC
A6.4	ICAO AST TF		Part IV – COM Charts per ICAO Region	Latest Version			AIRAC dates	Downloadable from AMC, COM Charts are updated periodically on each AIRAC date
A7	AMC		AMHS Address Management	Periodic on each AIRAC date		formally Regional, but global use is required		Downloadable from AMC
A8	AMC		AMHS User Capabilities	Periodic on each AIRAC date		formally Regional, but global use is required		Downloadable from AMC

Id	Source	Reference	Title	Latest published Edition	Status	Geographical scope	Applicability date	Comments
A9	ICAO	Doc 9880-AN/466	Manual on Detailed Technical Specifications for the Aeronautical Telecommunication Network (ATN) using ISO/OSI Standards and Protocols	2 nd edition	Approved by the ICAO Secretary General and published under his authority	Global	2016	
A9.1	ICAO	Doc 9880-AN/466, Part II	Manual on Detailed Technical Specifications for the Aeronautical Telecommunication Network (ATN) using ISO/OSI Standards and Protocols Part II - Ground-Ground Applications – Air Traffic Services Message Handling Services (ATSMHS)	2 nd edition	Approved by the ICAO Secretary General and published under his authority	Global	2016	
A9.2	ICAO	Doc 9880-AN/466, Part IV	Manual on Detailed Technical Specifications for the Aeronautical Telecommunication Network (ATN) using ISO/OSI Standards and Protocols Part IV – Directory Services, Security and Identifier Registration	2 nd edition	Approved by the ICAO Secretary General and published under his authority	Global	2016	

Id	Source	Reference	Title	Latest published Edition	Status	Geographical scope	Applicability date	Comments
A10	ICAO	Doc 9896	Manual on the Aeronautical Telecommunication Network (ATN) using Internet Protocol Suite (IPS) Standards and Protocols	2 nd edition	Approved by the ICAO Secretary General and published under his authority	Global	2015	
A11	ICAO AST TF	EUR Doc 022	EUR AFS Security Guidelines	Latest Version	ICAO Regional Manual	Regional		available upon request
A12	EURO- CONTR OL	EUROCONTROL- SPEC-0136	EUROCONTROL Specification on the Air Traffic Services Message Handling System (AMHS)	Edition 2.1 06/09/2018	Released	EURO- CONTROL Member States	06/09/2018	
A13	EU	Community Specification (CS) on AMHS	EUROCONTROL Specification on the Air Traffic Services Message Handling System (AMHS)	C 323 of 31 December 2009, plus corrigendum C 18 of 23 January 2010	Published in the Official Journal of the European Union	EU Member States	31/12/2009	Community Specification (CS) on AMHS is based on EURCONTROL-SPEC-0136 Edition 2.0
A14	ICAO AST TF		AMHS Addressing Change Guidance	Latest Version	ICAO Regional Guidance document	Regional		Downloadable from ICAO EUR/NAT Website
A15	ICAO AST TF	EUR Doc 026	EUR AMHS COM Centre Training Guidelines	Latest Version	ICAO Regional Guidance document	Regional		Downloadable from ICAO EUR/NAT Website
A16	ICAO AST TF	EUR Doc 027 (provisional edition)	IP Infrastructure Test Guidelines for EUR AMHS	Latest Version	ICAO Regional Guidance document	Regional		Downloadable from ICAO EUR/NAT Website

4 Applicable documents indirectly or not explicitly related to AMHS

Id	Source	Reference	Title	Latest published Edition	Status	Geographical scope	Applicability date	Comments
I1	ICAO	Doc 7030	Regional Supplementary Procedures	Fifth Edition - 2008		Regional	as per latest amendment	Downloadable from ICAO EUR/NAT Website
I2	ICAO Paris Office	EUR Doc 005	EUR CIDIN Manual	Latest Version		Global, via a reference from Annex 10 Vol. II, III		Downloadable from ICAO EUR/NAT Website
I3	ICAO	Doc 7910	Location Indicators	Periodic		Global		Published quarterly
I4	ICAO	Doc 8585	Designators for Aircraft Operating Agencies, Aeronautical Authorities and Services	Periodic		Global		Published quarterly

5 Documents in preparation and/or not officially published

Id	Source	Reference	Title	Latest Edition	Status	Geographical scope	Applicability date	Comments
P1	ICAO ACP	Doc 9739	Comprehensive ATN Manual	Draft Edition 2		Global		Available on ACP web site
P2	ICAO ACP		Preliminary AMHS Management Domain Register		In preparation	Global		Available on ACP web site

6 Base Standards used in AMHS specifications

- **Note 1:** This table is for general information only and not to be considered exhaustive. Details of the base standards referenced in the AMHS technical provisions are specified in ICAO Document 9880
- **Note 2:** The entries included in the Table correspond to the editions of the standards as referenced in ICAO Doc 9880 and/or the EUR AMHS Manual. The ‘Publication Status’ is depicted as declared by the responsible organization. As international standards are reviewed and updated on a quite regular basis, the status of some entries is indicated as ‘withdrawn’. Nevertheless, as long as ICAO Doc 9880 and/or the EUR AMHS Manual are using the older editions of these standards as reference, the relevant entries are retained in the Table. The latest published edition of the concerned standards is indicated at the column ‘Latest Edition’ of the Table, for information but not implementation purposes.

Id	Source	Reference	Title	Latest Edition	Publication Status	Comments
S1	ISO/IEC	ISO/IEC 10021:1990 + Amendments and Corrigenda, parts 1 to 7	Information Technology — Text Communication — Message-Oriented Text Interchange System (MOTIS)	2003, for parts 1,2,4,6,7 1999, for part 5	Withdrawn by ISO	Applicable for the Basic ATS Message Handling Service ISO/IEC 10021:1990, part 3 was withdrawn
S2	ISO/IEC	ISO/IEC 10021	Information Technology — Message Handling Systems (MHS)		International Standards, risk of withdrawal	Update / superset of S1. Applicable for the Basic and Extended ATS Message Handling Service
S2.1		ISO/IEC 10021:2003, part 1	Information Technology — Message Handling Systems (MHS) - Part 1: System and service overview	2003	International Standards, risk of withdrawal Published	
S2.2		ISO/IEC 10021:2003, part 2	Information Technology — Message Handling Systems (MHS):Overall architecture	2003	International Standards, risk of withdrawal Published	

Id	Source	Reference	Title	Latest Edition	Publication Status	Comments
S2.3		ISO/IEC 10021:2003, part 4	Information Technology — Message Handling Systems (MHS): Message transfer system -- Abstract service definition and procedures	2003	International Standards, risk of withdrawal Published	
S2.4		ISO/IEC 10021:1999, part 5	Information Technology — Message Handling Systems (MHS): Message store: Abstract service definition	1999	International Standards, risk of withdrawal Published	
S2.5		ISO/IEC 10021:2003, part 6	Information Technology — Message Handling Systems (MHS): Protocol specifications	2003	International Standards, risk of withdrawal Published	
S2.6		ISO/IEC 10021:2003, part 7	Information Technology — Message Handling Systems (MHS): Interpersonal messaging system	2003	International Standards, risk of withdrawal Published	
S3	ISO/IEC	ISO/IEC ISP 10611:1994, parts 1 to 5	Information technology — International Standardized Profiles AMH1n — Message Handling Systems — Common Messaging		Withdrawn by ISO	Applicable for the Basic ATS Message Handling Service
S4	ISO/IEC	ISO/IEC ISP 10611	Information technology — International Standardized Profiles AMH1n — Message Handling Systems — Common Messaging		Withdrawn by ISO	Update / superset of S3. Applicable for the Basic and Extended ATS Message Handling Service
S4.1	ISO/IEC	ISO/IEC ISP 10611:2003, part 3	Information technology — International Standardized Profiles AMH1n — Message Handling Systems — Common Messaging -- Part 3: AMH11 -- Message Transfer (P1)		Withdrawn by ISO	

Id	Source	Reference	Title	Latest Edition	Publication Status	Comments
S4.2	ISO/IEC	ISO/IEC ISP 10611:2003, part 4	Information technology — International Standardized Profiles AMH1n — Message Handling Systems — Common Messaging -- Part 4: AMH12 and AMH14 -- MTS Access (P3) and MTS 94 Access (P3)		Withdrawn by ISO	
S4.3	ISO/IEC	ISO/IEC ISP 10611:2003, part 5	Information technology — International Standardized Profiles AMH1n — Message Handling Systems — Common Messaging -- Part 5: AMH13 -- MS Access (P7)		Withdrawn by ISO	
S4.4	ISO/IEC	ISO/IEC ISP 10611:2003, part 6	Information technology — International Standardized Profiles AMH1n — Message Handling Systems — Common Messaging -- Part 6: AMH15 - MS 94 Access (P7)		Withdrawn by ISO	
S5	ISO/IEC	ISO/IEC ISP 12062:1995, parts 1 to 5	Information technology — International Standardized Profiles AMH2n — Message Handling Systems — Interpersonal Messaging		Withdrawn by ISO	Applicable for the Basic ATS Message Handling Service
S6	ISO/IEC	ISO/IEC ISP 12062:2003, parts 1 to 6	Information technology — International Standardized Profiles AMH2n — Message Handling Systems — Interpersonal Messaging		Withdrawn by ISO	Update / superset of S5. Applicable for the Basic and Extended ATS Message Handling Service
S7	ISO/IEC	ISO/IEC 9594:1995	Information Technology - Open Systems Interconnection – The Directory	2020, for parts 1 to 9. ISO/IEC 9594-10: 2008 was set to withdrawn	Withdrawn by ISO	For Extended ATS Message Handling Service (including Directory Services) only

Id	Source	Reference	Title	Latest Edition	Publication Status	Comments
S8	ISO/IEC	ISO/IEC ISP 11189:1997	Information technology — International Standardized Profiles — MHS Use of Directory (FDI2)		Withdrawn by ISO	For Extended ATS Message Handling Service (including Directory Services) only
S9	ISO/IEC	ISO/IEC ISP 15126:1999	Information technology — International Standardized Profiles		Withdrawn by ISO	For Extended ATS Message Handling Service (including Directory Services) only
S10	ITU-T	ITU-T Recommendation X.583:1997	Information technology - Open Systems Interconnection - The Directory: Protocol Implementation Conformance Statement (PICS) proforma for the Directory Access Protocol		Withdrawn by ITU-T	For Extended ATS Message Handling Service (including Directory Services) only
S11	ITU-T	ITU-T Recommendation X.584:1997	Information technology - Open Systems Interconnection - The Directory: Protocol Implementation Conformance Statement (PICS) proforma for the Directory System Protocol		Withdrawn by ITU-T	For Extended ATS Message Handling Service (including Directory Services) only
S12	ISO/IEC	ISO/IEC 9594:2005, parts 1 to 10	Information Technology - Open Systems Interconnection – The Directory	2020, for parts 1 to 9. ISO/IEC 9594-10: 2008 was set to withdrawn	Withdrawn by ISO	For Extended ATS Message Handling Service (including Directory Services) only
S13	ISO/IEC	ISO/IEC 646:1991	Information technology -- ISO 7-bit coded character set for information interchange	1991	International Standards, risk of withdrawal Published	
S14	ISO/IEC	ISO/IEC 8859-1:1987	Information processing -- 8-bit single-byte coded graphic character sets -- Part 1: Latin alphabet No. 1	1998	Withdrawn by ISO	

Id	Source	Reference	Title	Latest Edition	Publication Status	Comments
S15	IETF	RFC 793:1981	Transmission Control Protocol		Internet Standard	Published RFCs never change. When an RFC is updated, it gets a new number. Internet Standard is the final stage, when the standard is shown to be interoperable and widely deployed. However, a new Proposed Standard may well obsolete an older Internet Standard.
S16	IETF	RFC 1006:1987	ISO Transport Service on top of TCP (TP-TCP)		Internet Standard	
S17	IETF	RFC 1122:1989	Requirements for Internet Hosts - Communication Layers		Internet Standard	
S18	IETF	RFC 2126:1997	ISO Transport Service on top of TCP (ITOT)		Proposed Standard	Proposed Standard (PS) is the first official stage, but many standards never progress beyond this level.
S19	IETF	RFC 2460:1998	Internet Protocol, Version 6 (IPv6) Specification		Draft Standard	Draft Standard is an intermediate stage that is no longer used for new standards.
S20	IETF	RFC 2849:2000	The LDAP Data Interchange Format (LDIF) - Technical Specification		Proposed Standard	
S21	IETF	RFC 4301:2005	Security Architecture for the Internet Protocol (IPsec)		Proposed Standard	

Id	Source	Reference	Title	Latest Edition	Publication Status	Comments
S22	IETF	RFC 4443:2006	Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification		Internet Standard	
S23	IETF	RFC 4511:2006	Lightweight Directory Access Protocol (LDAP): The Protocol		Proposed Standard	

End of document