SESAR					Achieved				EC	CAC+
CON	10.1		Migrate from AFTN to AMHS (Basic service)							
REG	ASP	MIL	APO	USE	INT	IND	NM	MET	AIS	USP

Subject matter and scope

This objective covers the initial transitional step supporting migration from the AFTN to the Basic ATSMHS level of service. AFTN, complemented in Europe by the CIDIN, has provided an effective store-and-forward messaging service for the conveyance of text messages, using character-oriented procedures, for many years. However, AFTN/CIDIN technology is now becoming obsolete, and is not sufficiently flexible to support future messaging requirements. It is intended that existing AFTN and CIDIN users and systems will transition to more modern technology, using the ATSMHS application, defined by ICAO to replace the AFTN telegraphic style of working with a store-and-forward message handling system based on international standards and providing enhanced functionality.

This implementation objective makes use of the EUROCONTROL Specification 0136, Edition number 2.0 "EUROCONTROL specification for the Air Traffic Services Message Handling System (AMHS)" recognised as Community Specification in the Official Journal of the European Union (ref. OJ C 323, 31.12.2009, p. 24), to help the ground ATS Messaging systems of the EATM Network to meet the essential requirements for interoperability mandated by Commission Regulation (EC) No 552/2004. In application of Article 4 of Commission Regulation (EC) No 552/2004, compliance with the essential requirements for interoperability shall be presumed for AMHS systems, together with the associated procedures, that meet the AMHS Community Specification.

For global AMHS address management ICAO has strongly recommended the use of the ATS Messaging Management Centre (AMC) implemented by EUROCONTROL under the aegis of the ICAO EUR Office (Paris) to every ICAO Contracting State worldwide, as soon as there is an AMHS project or implementation in that State.

NOTE FOR MILITARY AUTHORITIES: It is the responsibility of each military authority to review this Objective IN ITS ENTIRETY and address each of the SLoAs that the military authority considers RELEVANT for itself. This has to be done on top and above of the review of "MIL" SLoAs which identify actions EXCLUSIVE to military authorities.

Applicability Area(s) & Timescale(s)

Applicability Area	All ECAC+ States			
Timescales:		From:	By:	Applicable to:
Initial Operational Capability		01/12/2011		Applicability Area
Full Operational Capability			31/12/2018	Applicability Area

References

European	A I W Waster	FIAII					
OI step -	- No OI Link -						
	Enablers -	CTE-C06c					
Legend:	WXX7-001	WXYZ-001 Covered by SLoA(s) in	WXYZ-002	Covered by SLoA(s)) in another objective	WXYZ-	Not covered in the
Logona.		this objective	ZZZ	Objective covering t	he enabler	003	Implementation Plan

Applicable legislation

European ATM Master Blan

-noneEssential Operational Changes

SESAR Solution

ICAO GANP - ASBUs

COMI-B0/7	ATS Message Handling System (AMHS)
Doploymont Brog	

Deployment Programme

- none -

COM10.1

European Plan for Aviation Safety

- none -

Operating Environments

Airport En-Route Network Terminal Airspace

Stakeholder Lines of Action (SLoAs)

SloA ref.	Title	From	Ву
COM10.1-ASP01	Implement AMHS capability (Basic ATSMHS) and gateway facilities to AFTN	01/01/2002	31/12/2018
COM10.1-ASP02	Implement regional boundary gateways	01/01/2002	31/12/2018
COM10.1-ASP04	Ensure the conformity of AMHS systems and associated procedures	01/01/2002	31/12/2018
COM10.1-ASP05	Organise personnel awareness and training	01/01/2002	31/12/2018
COM10.1-ASP06	Participate in AMC activities for ATS Messaging Management	01/01/2007	31/12/2018
COM10.1-IND01	Ensure the conformity of AMHS systems	01/01/2002	31/12/2018
COM10.1-AGY01	Provide AMC (ATS Messaging Management Centre) Service	01/01/2007	31/12/2018
COM10.1-AGY05	Implement AMHS-Community Specification compliance testing methodology and tools	01/01/2010	31/12/2018
COM10.1-AGY06	Support personnel training	01/01/2002	31/12/2018
Description of finalise	ed and deleted SLoAs is available on the eATM Portal @ https://www.eatmportal.eu/wor	king/depl/essip o	bjectives

Expected Performance Benefits

Safety:	Benefits resulting from the application of a harmonised set of safety requirements.
Capacity:	-
Operational Efficiency:	-
Cost Efficiency:	Use of COTS messaging systems will de-facto reduce the cost of messaging services and support any kind of message format including the exchange of new binary data leading to lower ANS provision costs.
Environment:	-
Security:	AMHS security services may help to protect against safety hazards such as accidental or deliberate message corruption and can provide protection against undetected misdelivery.

Detailed SLoA Descriptions

COM10.1-ASP01	COM10.1-ASP01 Implement AMHS capability (Basic ATSMHS) and gateway facilities to AFTN	From: 01/01/2002	By: 31/12/2018			
			01/12/2010			
Action by:	ANS Providers					
Description & purpose:	Upgrade existing COM centres to provide AMHS capability and/or AFTN gateway facilities					
Supporting material(s): ICAO - Doc 9880-Part II - Manual on Detailed Technical Specifications for the Aeronautical Telecommunication (ATN) using ISO/OSI Standards and Protocols - Part II - Ground-Ground Applications - Air Traffic Services Me Handling Services (ATSMHS) - Edition 1 / 12/2010						
	Url : https://store.icao.int/					
	ICAO - EUR-Doc 020 - EUR AMHS Manual - Version 16 / 10/2021					
	Url : https://www.icao.int/EURNAT/EUR%20and%20NAT%20Documents					
	20Documents/020%20-%20EUR%20AMHS%20Manual/EUR%20Doc% 20Manual_v16_0.pdf	20020%20-%20EUR%2	<u>20AMHS%</u>			
	ICAO - EUR-Doc 021 - ATS Messaging Management Manual - Version 16 / 04/2014					
	Url : https://www.icao.int/EURNAT/EUR%20and%20NAT%20Documents/EUR%20Documents/EUR% 20Documents/021%20-%20ATS%20Messaging%20Management%20Manual/EUR%20Doc%20021%20-%20ATS% 20Messaging%20Management%20Manual_v16_0.pdf					
EUROCONTROL - SPEC-0136 - EUROCONTROL Specification on the Air Traffic Services Message Handl (AMHS) - Edition 2.1 / 09/2018						
	Url : https://www.eurocontrol.int/publication/eurocontrol-specification-air-	traffic-services-message	e-handling-system-amhs			
Finalisation criteria:	1 - AMHS capability has been implemented, documented and in operation	onal service.				
COM10.1-ASP02	Implement regional boundary gateways	From:	By:			

COM10.1

Migrate from AFTN to AMHS (Basic service)

		01/01/2002	31/12/2018				
Action by:	ANS Providers						
Description & purpose:	Provide interfaces between the EUR AMHS and non-European AFTN a the EUR Region. This action is applicable to ANSPs in ICAO EUR Reg		MHS networks outside				
Supporting material(s):	ICAO - Doc 9880-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) - Edition 1 / 12/2010						
	Url : <u>https://store.icao.int/</u>						
	ICAO - EUR-Doc 020 - EUR AMHS Manual - Version 16 / 10/2021 Url : https://www.icao.int/EURNAT/EUR%20and%20NAT%20Documer 20Documents/020%20-%20EUR%20AMHS%20Manual/EUR%20Doc% 20Manual_v16_0.pdf ICAO - EUR-Doc 021 - ATS Messaging Management Manual - Version	<u>%20020%20-%20EUR%</u> 2					
	Url : https://www.icao.int/EURNAT/EUR%20and%20NAT%20Documents/EUR%20Documents/EUR% 20Documents/021%20-%20ATS%20Messaging%20Management%20Manual/EUR%20Docc%20021%20-%20ATS% 20Messaging%20Management%20Manual_v16_0.pdf EUROCONTROL - SPEC-0136 - EUROCONTROL Specification on the Air Traffic Services Message Handling System (AMHS) - Edition 2.1 / 09/2018						
	Url : https://www.eurocontrol.int/publication/eurocontrol-specification-ail		e-handling-system-amh				
Finalisation criteria:	1 - Seamless cross-boundary operation of the ground ATS Messaging						
COM10.1-ASP04	Ensure the conformity of AMHS systems and associated procedures	From: 01/01/2002	By: 31/12/2018				
Action by:	ANS Providers						
Description & purpose:	Ensure that the AMHS systems and associated procedures comply with	n the AMHS Community	Specification				
Supporting material(s):	ICAO - Doc 9880-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 Systems Management - Edition 1 / 12/2010 Url : <u>https://store.icao.int/</u>						
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	EUROCONTROL - SPEC-0136 - EUROCONTROL Specification on the (AMHS) - Edition 2.1 / 09/2018		0 0 7				
-	(AMHS) - Edition 2.1 / 09/2018 Url : <u>https://www.eurocontrol.int/publication/eurocontrol-specification-ai</u>		0 0 7				
inalisation criteria:	(AMHS) - Edition 2.1 / 09/2018	r-traffic-services-messag	e-handling-system-amh				
Finalisation criteria: COM10.1-ASP05	(AMHS) - Edition 2.1 / 09/2018 Url : <u>https://www.eurocontrol.int/publication/eurocontrol-specification-ai</u>		0 0 7				
Finalisation criteria: COM10.1-ASP05 Action by:	(AMHS) - Edition 2.1 / 09/2018 Url : <u>https://www.eurocontrol.int/publication/eurocontrol-specification-air</u> 1 - EC declaration of verification has been provided.	r-traffic-services-messag	e-handling-system-amh				
COM10.1-ASP05 Action by:	 (AMHS) - Edition 2.1 / 09/2018 Url : <u>https://www.eurocontrol.int/publication/eurocontrol-specification-air</u> 1 - EC declaration of verification has been provided. Organise personnel awareness and training 	r-traffic-services-messag From: 01/01/2002 ngly to ensure that: y; ting AMHS;	e-handling-system-amh By: 31/12/2018				
COM10.1-ASP05 Action by: Description & purpose:	 (AMHS) - Edition 2.1 / 09/2018 Url : <u>https://www.eurocontrol.int/publication/eurocontrol-specification-air</u> 1 - EC declaration of verification has been provided. Organise personnel awareness and training ANS Providers Develop and maintain operations manuals and train personnel accordir - All COM Centre personnel are adequately trained to AMHS technolog - An AMHS "expertise cell" is available in every COM Centre implement 	r-traffic-services-messag From: 01/01/2002 ngly to ensure that: y; ting AMHS;	e-handling-system-amh By: 31/12/2018				
COM10.1-ASP05	 (AMHS) - Edition 2.1 / 09/2018 Url : <u>https://www.eurocontrol.int/publication/eurocontrol-specification-air</u> 1 - EC declaration of verification has been provided. Organise personnel awareness and training ANS Providers Develop and maintain operations manuals and train personnel accordir All COM Centre personnel are adequately trained to AMHS technolog An AMHS "expertise cell" is available in every COM Centre implemen All ANSP personnel involved in ATS Messaging Management (AMC at EUROCONTROL - IANS-COM-AMHS - IANS-COM-AMHS Course 	r-traffic-services-messag From: 01/01/2002 ngly to ensure that: y; ting AMHS;	e-handling-system-amh By: 31/12/2018				
COM10.1-ASP05 Action by: Description & purpose:	 (AMHS) - Edition 2.1 / 09/2018 Url : <u>https://www.eurocontrol.int/publication/eurocontrol-specification-air</u> 1 - EC declaration of verification has been provided. Organise personnel awareness and training ANS Providers Develop and maintain operations manuals and train personnel accordir - All COM Centre personnel are adequately trained to AMHS technolog An AMHS "expertise cell" is available in every COM Centre implemen - All ANSP personnel involved in ATS Messaging Management (AMC a EUROCONTROL - IANS-COM-AMHS - IANS-COM-AMHS Course Url : <u>https://trainingzone.eurocontrol.int</u> ICAO - EUR-Doc 020 - EUR AMHS Manual - Version 16 / 10/2021 Url : <u>https://www.icao.int/EURNAT/EUR%20and%20NAT%20Documer</u> 20Documents/020%20-%20EUR%20AMHS%20Manual/EUR%20Docy 	r-traffic-services-messag From: 01/01/2002 ngly to ensure that: y; ting AMHS; ictivities) is adequately tr	e-handling-system-amh By: 31/12/2018 rained.				
COM10.1-ASP05 Action by: Description & purpose:	 (AMHS) - Edition 2.1 / 09/2018 Url : <u>https://www.eurocontrol.int/publication/eurocontrol-specification-air</u> 1 - EC declaration of verification has been provided. Organise personnel awareness and training ANS Providers Develop and maintain operations manuals and train personnel accordir AII COM Centre personnel are adequately trained to AMHS technolog An AMHS "expertise cell" is available in every COM Centre implemen All ANSP personnel involved in ATS Messaging Management (AMC a EUROCONTROL - IANS-COM-AMHS - IANS-COM-AMHS Course Url : <u>https://trainingzone.eurocontrol.int</u> ICAO - EUR-Doc 020 - EUR AMHS Manual - Version 16 / 10/2021 Url : <u>https://www.icao.int/EURNAT/EUR%20and%20NAT%20Documer</u> 	r-traffic-services-messag From: 01/01/2002 hgly to ensure that: y; ting AMHS; hctivities) is adequately tr ts/EUR%20Documents/ %20020%20-%20EUR%;	e-handling-system-amh By: 31/12/2018 rained.				
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COM10.1-ASP05 Action by: Description & purpose: Supporting material(s):	 (AMHS) - Edition 2.1 / 09/2018 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-air 1 - EC declaration of verification has been provided. Organise personnel awareness and training ANS Providers Develop and maintain operations manuals and train personnel accordir - All COM Centre personnel are adequately trained to AMHS technolog An AMHS "expertise cell" is available in every COM Centre implement - All ANSP personnel involved in ATS Messaging Management (AMC a EUROCONTROL - IANS-COM-AMHS - IANS-COM-AMHS Course Url : https://trainingzone.eurocontrol.int ICAO - EUR-Doc 020 - EUR AMHS Manual - Version 16 / 10/2021 Url : https://www.icao.int/EURNAT/EUR%20and%20NAT%20Documer 20Documents/020%20-%20EUR%20AMHS%20Manual/EUR%20Doc? 20Manual v16 0.pdf ICAO - EUR-Doc 021 - ATS Messaging Management Manual - Version Url : https://www.icao.int/EURNAT/EUR%20and%20NAT%20Documer 20Documents/020%20-%20EUR%20AMHS%20Manual/EUR%20Doc? 20Manual v16 0.pdf ICAO - EUR-Doc 021 - ATS Messaging Management Manual - Version Url : https://www.icao.int/EURNAT/EUR%20and%20NAT%20Documer 20Documents/021%020-%20ATS%20Messaging%20Management%20I 20Messaging%20Management%20I 	r-traffic-services-messag From: 01/01/2002 hgly to ensure that: y; ting AMHS; activities) is adequately tr ts/EUR%20Documents// 6/20020%20-%20EUR%2 16 / 04/2014 ts/EUR%20Documents// Manual/EUR%20Docw21 e Air Traffic Services Meson	e-handling-system-amh By: 31/12/2018 rained. EUR% 20AMHS% EUR% 0021%20-%20ATS% ssage Handling System				
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Migrate from AFTN to AMHS (Basic service)

Supporting material(s):	ICAO - EUR-Doc 021 - ATS Messaging Management Manual - Version					
	Url : https://www.icao.int/EURNAT/EUR%20and%20NAT%20Documer 20Documents/021%20-%20ATS%20Messaging%20Management%20I 20Messaging%20Management%20Manual_v16_0.pdf					
Finalisation criteria:	1 - AMC Procedures for Cooperating COM Centres (CCC) operators have been implemented as defined in the ATS Messaging Management Manual.					
		From:	By:			
COM10.1-IND01	Ensure the conformity of AMHS systems	01/01/2002	31/12/2018			
Action by:	Industry					
Description & purpose:	AMHS system manufacturers to ensure that the available AMHS systems comply with the AMHS Community Specification.					
Supporting material(s):	ICAO - Doc 9880-Part IV - Manual on Detailed Technical Specifications Network (ATN) using ISO/OSI Standards and Protocols - Part IV - Direc Management - Edition 1 / 12/2010					
	Url : <u>https://store.icao.int/</u>					
	EUROCONTROL - SPEC-0136 - EUROCONTROL Specification on the (AMHS) - Edition 2.1 / 09/2018	e Air Traffic Services	Message Handling Systen			
	Url : https://www.eurocontrol.int/publication/eurocontrol-specification-air	r-traffic-services-mes	sage-handling-system-am			
Finalisation criteria:	 Test reports have been completed in accordance with AMHS Community Specification and testing methodology and tools ensured by the EUROCONTROL Agency. An EC declaration of conformity has been provided. 					
		From:	By:			
COM10.1-AGY01	Provide AMC (ATS Messaging Management Centre) Service	01/01/2007	31/12/2018			
Action by:	Agency					
Description & purpose:	Provide AMHS off-line network management service defined in the ATS Doc 021)	S Messaging Manage	ment Manual (ICAO EUR			
Supporting material(s):	ICAO - EUR-Doc 021 - ATS Messaging Management Manual - Version 16 / 04/2014					
	Url : https://www.icao.int/EURNAT/EUR%20and%20NAT%20Documer 20Documents/021%20-%20ATS%20Messaging%20Management%20I 20Messaging%20Management%20Manual v16 0.pdf					
Finalisation criteria:	1 - Positive indication in AMC user's satisfaction surveys					
		From:	By:			
COM10.1-AGY05	Implement AMHS-Community Specification compliance testing methodology and tools	01/01/2010	31/12/2018			
Action by:	Agency					
Description & purpose:	Take measures to ensure availability of test tools with adequate function Specification (particularly regarding Extended ATSMHS) Develop and implement testing methodology enabling Industry manufa Community Specification conformance tests	, 0	2			
Supporting material(s):	EUROCONTROL - SPEC-0136 - EUROCONTROL Specification on the (AMHS) - Edition 2.1 / 09/2018	e Air Traffic Services	Message Handling Syster			
	Url : https://www.eurocontrol.int/publication/eurocontrol-specification-ail	r-traffic-services-mes	sage-handling-system-am			
Finalisation criteria:	1 - Test tool has been made available.					
COM10.1-AGY06	Support personnel training	From: 01/01/2002	By: 31/12/2018			
	A					
Action by:	Adency					
Action by: Description & purpose:	Agency Support AMHS training of personnel in ANS Providers, including opera	tional procedures				