F	СР		Removed					EC	CAC+	
AOI	M19.1	ASM Support Tools to Support Advanced FUA (AFUA)								
REG	ASP	MIL	APO	USE	INT	IND	NM	MET	AIS	USP

Subject matter and scope

Deploy Airspace Management (ASM) support systems (LARA or locally developed) and their interoperability with NM systems to manage airspace reservations (ARES) resulting from civil-military co-ordination, more flexibly according to airspace users' needs. The automated ASM support system shall:

- enable the improvement of airspace management processes, including timing dimension by providing mutual visibility on civil and military requirements;
- support a flexible airspace planning taking into account ATS units' airspace management functions and airspace users' requirements, allowing also cross-border and segregated operations with optimized impact;
- support dynamic airspace management;
- address strategic, pre-tactical planning and tactical operations;
- be compatible for the sharing of real-time airspace status requirements and possibly provide data for impact assessment of airspace configurations:
- be interoperable with NM systems using AIXM 5.1 (Aeronautical Information Exchange Model);
- include a verification process for automated data exchange.

This objective is an enabler for its successors AOM19.2, AOM19.3 and AOM19.4 and, in turn, for ATM sub-functionality 3.1 (Airspace Management and Advanced Flexible Use of Airspace) of the PCP Regulation.

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			
Timescales:	From:	Ву:	Applicable to:
Initial operational capability	01/01/2011		Applicability Area
Full operational capability		01/01/2022	Applicability Area

References

European ATM Master Plan

OI step -	[AOM-0202]-Enhanced Real-time Civil-Military Coordination of Airspace Utilisation								
	Enablers -	AAMS-06a	AAMS-08	AAMS-09	AAMS-10a AOM13.1	AAMS-15	AIMS-06	AIMS-21	AIMS-22
		PRO-184 AOM19.5							
OI step -	[AOM-0202-	A]-Automated S	Support for strat	egic, pre-tactica	al and tactical C	ivil-Military Coo	rdination in Airs	pace Managem	nent (ASM).
	Enablers -	AAMS-06b	AAMS-09a	AAMS-11 AOM19.5	AIMS-06	ER APP ATC 77 AOM19.4, AOM19.5	MIL-0502	NIMS-42 AOM19.5	PRO-011 AOM19.5
		PRO-024 AOM19.5	SWIM-APS- 02a	SWIM-APS- 03a	SWIM-INFR- 05a	SWIM-NET- 01a			

I amount	M/V//7 004	Covered by SLoA(s) in	WXYZ-002	Covered by SLoA(s) in another objective	WXYZ-	Not covered in the
Legena:	VVXYZ-001	this objective	zzz	Objective covering the enabler	003	Implementation Plan

Applicable legislation

- Regulation (EC) No 2150/2005 of 23 December 2005 on Implementation and Application of the Flexible Use of Airspace
- Regulation (EU) No 716/2014 on the establishment of the Pilot Common Project

Essential Operational Changes

- none -

SESAR Solution

AOM19.1 ASM Support Tools to Support Advanced FUA (AFUA)

#31 - Variable profile military reserved areas and enhanced (further automated) civil-military collaboration

ICAO GANP - ASBUs

- none -

Deployment Programme

- none -

European Plan for Aviation Safety

- none -

Operating Environments

En-Route

Network

Terminal Airspace

Stakeholder Lines of Action (SLoAs)

SloA ref.	Title	From	Ву
AOM19.1-ASP01	Deploy automated ASM support systems	01/01/2011	01/01/2022
AOM19.1-ASP02	Implement interoperability of local ASM support system with NM system	01/01/2011	01/01/2022
AOM19.1-ASP03	Improve planning and allocation of airspace booking	01/01/2011	01/01/2022
AOM19.1-NM01	Integrate local ASM support systems with NM system	01/01/2011	01/01/2022

Description of finalised and deleted SLoAs is available on the eATM Portal @ https://www.eatmportal.eu/working/depl/essip_objectives

Expected Performance Benefits

Safety:

Improved through better co-ordination of civil and military airspace needs at the European Network level and through a shared real-time airspace status display and enhanced, common situational awareness of all players.

Capacity:

Increased through better awareness and utilization of airspace resources within and across airspace boundaries

leading to reduction of flight delays.

Operational Efficiency:

Increased through the availability of more optimum routes/trajectories allowing lower fuel burn.

Cost Efficiency:

•

Emissions reduced through the use of more optimum routes/trajectories.

Environment: Security:

| -

Detailed SLoA Descriptions

AOM19.1-ASP01	Deploy automated ASM support systems	From: 01/01/2011	By: 01/01/2022				
Action by:	ANS Providers						
Description & purpose:	Deploy Airspace Management (ASM) support systems (LARA or locally developed ones) to support the local or sub- regional airspace planning and allocation (without AIXM 5.1 interface - covered by ASP02).						

Supporting material(s):	EUROCONTROL - European Route Network Improvement Plan (ERNIF	P) Part 3 - Airspace	e Management Handbook -					
apporting material(3).	Guidelines for Airspace Management - 5.5 / 11/2017		-					
	Url: https://www.eurocontrol.int/publication/european-route-network-improvement-plan-ernip-part-3							
	EUROCONTROL - LARA (Local and sub-Regional Airspace Management Support System)							
	Url: https://www.eurocontrol.int/software/local-and-sub-regional-airspace-management-support-system							
	EUROCONTROL - Advanced FUA Concept - Edition 1.0							
	Url: http://www.eurocontrol.int/sites/default/files/publication/files/advanced-fua-concept-v1.0-sept-2015.pdf EUROCONTROL - SPEC-112 - EUROCONTROL Specification for the application of the Flexible Use of Airspace (FUA)							
	- Edition 1.1 / 01/2009							
	Url: https://www.eurocontrol.int/publication/eurocontrol-specification-ap EUROCONTROL - SPEC-179 - EUROCONTROL Specification for Airs Requirements supporting the ASM processes at local and FAB level Pa Requirements - 1.0 / 01/2020	pace Management	t (ASM) Support System					
	Url: https://www.eurocontrol.int/publication/eurocontrol-specification-air.requirements	space-managemei	nt-asm-support-system-					
	EUROCONTROL - SPEC 166 - EUROCONTROL Specification for Airs Requirements supporting the ASM processes at local and FAB level Pa 09/2017							
	Url: https://www.eurocontrol.int/publication/eurocontrol-specification-air requirements	space-managemei	nt-asm-support-system-					
TM Master Plan	[AAMS-08]-Airspace management system enhanced to support improve	ed collaborative air	space planning					
lationship:	[AAMS-09]-Airspace management system enhanced to support the inte	grated European a	airspace planning process					
nalisation criteria:	1 - Local ASM systems supporting the airspace planning and allocation interface).	have been deploye	ed (without AIXM 5.1					
	Implement interoperability of local ASM support system with NM	From:	Ву:					
AOM19.1-ASP02	system	01/01/2011	01/01/2022					
ction by:	ANS Providers							
escription & purpose:	Implement interoperability of local ASM support system with NM system							
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ASM Support Tools to Support Advanced FUA (AFUA)

AOM19.1

AOM19.1	ASM Support Tools to Support Advanced FUA (AFUA)						
Description & purpose:	Improve planning and allocation of reserved/segregated airspace at pre-tactical ASM level 2 by: - Planning reserved/segregated airspace utilization in accordance with actual need. - Releasing reserved/segregated non used airspace as soon as activity stops. - Utilizing reserved/segregated airspace that has not been planned in AUP (ad-hoc allocation - Procedure 3 as defined in the ERNIP Part 3 - ASM Handbook) This should be enabled by the measurement of FUA Indicators, described in detail in Section 7 of the ERNIP Part 3 ASM Handbook, using PRISMIL (Pan-European Repository of Information Supporting Military) or any other tool providing the required functionality. The measurement of FUA performance is required by Article 4(1)(m-n) of the FUA Regulation (Regulation (EC) No 2150/2005) and by the SES Performance Scheme (Regulation (EU) No 390/2013).						
Supporting material(s):	EUROCONTROL - European Route Network Improvement Plan (ERNIP) Part 3 - Airspace Management Handbook - Guidelines for Airspace Management - 5.5 / 11/2017 Url : https://www.eurocontrol.int/publication/european-route-network-improvement-plan-ernip-part-3 EUROCONTROL - Advanced FUA Concept - Edition 1.0						
	Url: http://www.eurocontrol.int/sites/default/files/publication/files/advanced-fua-concept-v1.0-sept-2015.pdf EUROCONTROL - Civil-military ATM Performance Framework - V1.0 Url: http://www.eurocontrol.int/publications/civil-military-atm-performance-framework EUROCONTROL - SPEC-112 - EUROCONTROL Specification for the application of the Flexible Use of Airspace (FUA)						
	- Edition 1.1 / 01/2009 Url: https://www.eurocontrol.int/publication/eurocontrol-specification-application-flexible-use-airspace-fua EUROCONTROL - SPEC-179 - EUROCONTROL Specification for Airspace Management (ASM) Support System Requirements supporting the ASM processes at local and FAB level Part II ASM to ASM Systems Interface Requirements - 1.0 / 01/2020 Url: https://www.eurocontrol.int/publication/eurocontrol-specification-airspace-management-asm-support-system-requirements EUROCONTROL - SPEC 166 - EUROCONTROL Specification for Airspace Management (ASM) Support System Requirements supporting the ASM processes at local and FAB level Part I - Baseline Requirements - Edition 1.0 /						
Finalisation criteria:	O9/2017 Url: https://www.eurocontrol.int/publication/eurocontrol-specification-airs requirements 1 - Reserved/segregated airspace has been used in accordance with accordance with accordance.						
	described in ERNIP Part 3 ASM Handbook).	From:	By:				
AOM19.1-NM01	Integrate local ASM support systems with NM system	01/01/2011	01/01/2022				
Action by:	NM						
Description & purpose:	- Integrate the local automated ASM support systems using AIXM 5.1 B2 Update existing Agreement NM-ANSP in order to cover B2B services.		stems.				
Supporting material(s):	EUROCONTROL - European Route Network Improvement Plan (ERNIP) Part 3 - Airspace Management Handbook - Guidelines for Airspace Management - 5.5 / 11/2017 Url: https://www.eurocontrol.int/publication/european-route-network-improvement-plan-ernip-part-3 EUROCONTROL - LARA (Local and sub-Regional Airspace Management Support System) Url: https://www.eurocontrol.int/software/local-and-sub-regional-airspace-management-support-system EUROCONTROL - Advanced FUA Concept - Edition 1.0 Url: http://www.eurocontrol.int/sites/default/files/publication/files/advanced-fua-concept-v1.0-sept-2015.pdf EUROCONTROL - SPEC-179 - EUROCONTROL Specification for Airspace Management (ASM) Support System Requirements supporting the ASM processes at local and FAB level Part II ASM to ASM Systems Interface Requirements - 1.0 / 01/2020 Url: https://www.eurocontrol.int/publication/eurocontrol-specification-airspace-management (ASM) Support System requirements EUROCONTROL - SPEC 166 - EUROCONTROL Specification for Airspace Management (ASM) Support System Requirements supporting the ASM processes at local and FAB level Part I - Baseline Requirements - Edition 1.0 / 09/2017 Url: https://www.eurocontrol.int/publication/eurocontrol-specification-airspace-management-asm-support-system-requirements						
ATM Master Plan relationship:	[AAMS-09a]-NM systems enhanced to exchange static data and airspac AIXM format [AIMS-22]-Airspace management functions enhanced to provide airspac	•	support systems in				
Finalisation criteria:	ASM support system testing with NM has been performed Local ASM system integrated with NM system using AIXM 5.1 format Existing Agreement NM-ANSP has been updated in order to cover Bi	:					