SE	SAR				Removed				Е	CAC
AO	M19			Imple	ement Adva	nced Airsp	ace Manag	ement		
REG	ASP	MIL	APO	USE	INT	IND	NM	MET	AIS	USP

Subject matter and scope

Establish a collaborative civil-military airspace planning at the European Network level through an integrated Airspace Management/Air Traffic Flow Capacity Management (ASM/ATFCM) process and an extended planning phase into the day of operations.

Ensure full exploitation of capacity becoming available through the identification of efficient combinations of areas allocation, routes availability, including CDRs, and sector configurations able to cope with traffic demand. The process will be applied also for improving the planning activities related to the updates to airspace status.

Foster a consistent application of the Flexible Use of Airspace (FUA) Concept across the European network, and support a safe, efficient and accurate flow of ASM data.

This will support the ECAC States collective responsibility for European airspace planning and management that provides for a continuum and transparency of airspace structures and rules at boundaries while satisfying national security and defence requirements.

The improved planning process refers to the use of specific procedures allowing Airline Operators (AOs) to optimise their flight planning in order to achieve a more efficient utilization of available airspace through more dynamic responses to specific short notice or real-time airspace status changes, requirements and route optimisation at the pre-tactical and/or tactical levels.

Develop, validate and implement ASM/ATFCM processes, procedures and supporting tools at national, sub-regional and the European Network level to ensure that airspace is used more flexibly, capacity is better balanced and predictability is enhanced through greater adherence to planned activities as a result of better planning and notification.

It will provide a coherent response to the recommendations of the Performance Review Commission (PRC) report on Civil-Military Airspace Utilisation (2007) in accordance with the Dynamic Management of the European Airspace Network (DMEAN) Framework Programme and DMEAN Conception of Operations (CONOPS) and supporting expected deliverables of SESAR WP7 [Network Operations] in particular P7.5.2 [Advanced FUA Concept].

Ultimately, the ASM operations continue until the real-time activation of airspaces or routes. The alignment between both ASM/ATFCM processes shall continue to ensure the assessment of the network impact, the identification of flights affected by real-time modifications, as well as the timely dissemination of the decisions. Airspace uses (allocations, activations, deactivations) are issued from the ASM tools (LARA, STANLY, etc) via B2B.

FOR MILITARY AUTHORITIES: It is the responsibility of each Military Authority to review this ESSIP 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 MIL Authorities

Applicability Area(s) & Timescale(s)

Applicability Area			
Timescales:	From:	Ву:	Applicable to:
Initial operational capability	01/01/2011		Applicability Area
Full operational capability		31/12/2016	Applicability Area

References

European ATM Master Plan

OI step -	[AOM-0201]-Moving Airspace Management Into Day of Operation								
	Enablers -	PRO-184	PRO-185						
OI step -	[AOM-0202]	-Enhanced Rea	I-time Civil-Milit	ary Coordinatio	n of Airspace U	tilisation			
	Enablers -	AAMS-06a	AAMS-08	AAMS-09	AAMS-10a AOM13.1	AAMS-15	AIMS-06	AIMS-21	AIMS-22
		PRO-184							
OI step -	[AOM-0205]	-Modular Temp	orary Airspace	Structures and	Reserved Areas	3			
	Enablers -	AAMS-08	NIMS-14a	PRO-009	PRO-082	PRO-185			
OI step -	[AOM-0401]	-Multiple Route	Options & Airsp	oace Organisati	on Scenarios				

AC	M19			In	npleme	nt Advanced	Airspace Ma	anagem	ent	
	Enablers -	None								
OI step -	[DCB-0203]-	- -Enhanced ASM	/ATFCM C	oordina	ted Proce	ess			'	'
	Enablers -	AAMS-06a	AIMS-2	1	AIMS-22	PRO-010				
Ol step -	- No OI Link	_							'	'
	Enablers -	AAMS-11								
						·				<u>'</u>
Legend:	WXYZ-001	Covered by S this objective	LoA(s) in	WXYZ zzz	Z-002	Covered by SLoA Objective covering	` '	bjective	WXYZ- 003	Not covered in the Implementation Plan

Applicable legislation

Council Decision of 30 March 2009 endorsing the European Air traffic Management Master Plan of the Single European Sky ATM Research (SESAR) project (2009/320/EC)

Regulation (EC) No 2150/2005 of 23 December 2005 on Implementation and Application of the Flexible Use of Airspace

Essential Operational Changes

- none -

SESAR Solution

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-ASP01	Implement an improved ASM/ATFCM process	DELETED	
AOM19-ASP02	Implement CIAM Phase 1	DELETED	
AOM19-ASP03	Implement CIAM Phase 2	DELETED	
AOM19-ASP04	Implement Rolling ASM/ATFCM process	01/12/2011	31/12/2016
AOM19-ASP05	Implement Interoperability of local ASM support system with NM system	01/01/2014	31/12/2015
AOM19-ASP06	Simplify CDR categorisation	DELETED	
AOM19-ASP07	Optimise flexible airspace structure design and availability	01/01/2009	31/12/2015
AOM19-ASP08	Improve accuracy of airspace booking	01/12/2010	31/12/2015
AOM19-ASP09	Deploy automated ASM support systems	01/07/2010	31/12/2015
AOM19-ASP10	Improve notification to airspace users	01/07/2011	31/12/2016
AOM19-USE01	Implement an improved Notification Process supporting the Rolling ASM/ATFCM process	01/05/2009	31/12/2016
AOM19-USE02	Implement improved notification process supporting the Rolling ASM/ATFCM process	DELETED	
AOM19-NM01	Develop System and procedures for an improved ASM/ATFCM process	01/12/2010	31/12/2015
AOM19-NM02	Upgrade NM systems to allow exchange in real-time of ASM information	01/09/2014	31/12/2016

Implementation Plan Edition 2022

AOM19	Implement Advanced Airspace Management
AOM19	Implement Advanced Airspace Management

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. Potential gains through more efficient airspace allocation and better knowledge of traffic environment and some enhancement through reduction in controller workload.

Capacity:

Increased through better utilization of airspace resources within and across airspace boundaries. Potential increase through dynamic adjustment of airspace resources and suppression of some flight regulations thanks to local ATFCM measures with the same ATC sector manning.

Operational Efficiency:

Cost Efficiency:

Potential cost reduction through the availability of more optimum routes/trajectories and reduction of flight delays

thanks to increased capacity.

Environment:

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

Security:

N/A

Detailed SLoA Descriptions

	Detailed SLoA Descriptions					
		From:	Ву:			
AOM19-ASP04	Implement Rolling ASM/ATFCM process	01/12/2011	31/12/2016			
Action by:	ANS Providers					
Description & purpose:	Implement Rolling ASM/ATFCM process comprising the following: - Introduce Rolling airspace update process by providing for draft UUP r as described in the ASM Handbook; - Consider advice by the NM to re-consider UUP; - Submit UUP to NM as described in the ASM Handbook.	reflecting any change	e in airspace use planning			
Supporting material(s):	EUROCONTROL - SPEC-112 - EUROCONTROL Specification for the a - Edition 1.1 / 01/2009	application of the Fle	xible Use of Airspace (FUA)			
	Url: https://www.eurocontrol.int/publication/eurocontrol-specification-ap	plication-flexible-use	-airspace-fua			
ATM Master Plan	ster Plan [PRO-009]-Military Procedures to identify and release previously reserved airspace back to civil aviation					
relationship:						
	[PRO-185]-FUA Procedures					
Finalisation criteria:	1 - Rolling airspace update process has been deployed as defined in AS	SM Handbook.				
	Implement Interoperability of local ASM support system with NM	From:	Ву:			
AOM19-ASP05	system	01/01/2014	31/12/2015			
Action by:	ANS Providers					
	 Conclude LoA with NM; Provide relevant Aeronautical information required to implement dynar Use common database in accordance with LoA with NM; Deploy Rolling airspace update process by using NM facilities, providing airspace use planning as described in the ASM Handbook including real of real time airspace data. Provide airspace updates by means of system-to-system communicationstakeholders involved. This is in order to facilitate collaborative decision database. Participate continuously in Dynamic ASM/ATFCM process collaborative 	ng for airspace upda I time airspace statu n providing for auton making process ena	te reflecting any change in s information and collection natic notification of all the			
Supporting material(s):	EUROCONTROL - SPEC-112 - EUROCONTROL Specification for the a - Edition 1.1 / 01/2009	application of the Fle	xible Use of Airspace (FUA)			
	Url: https://www.eurocontrol.int/publication/eurocontrol-specification-ap					
ATM Master Plan elationship:	[AIMS-21]-Airspace management system enhanced for external user ac	cess to the airspace	data repository			
elationship.	[AIMS-22]-Airspace management functions enhanced to provide airspace	ce status information				
Finalisation criteria:	 1 - Local systems have been adapted to be interoperable with NM syste 2 - LoA has been concluded with NM. 3 - Automatic airspace updates have been provided by means of NM. 	ems.				
		From:	Ву:			
AOM19-ASP07	Optimise flexible airspace structure design and availability	01/01/2009	31/12/2015			
Action by:	ANS Providers					
Description & purpose:	Create CDRs and DCT, when appropriate, as a function of vertical and Harmonise CDR and DCT, when appropriate, design and availability at The same applies at bilateral or sub-regional level. This is to be achieved through the developments agreed in Route Network Airspace management Sub-Group working arrangements.	national level (if affec	cting adjacent ATS units).			

	I .						
Supporting material(s):	EUROCONTROL - European ATS Route Network (ARN) Version 201						
	Url: http://www.eurocontrol.int/sites/default/files/publication/files/ernip-part2-arn-v-2013-2015-07062013.pdf						
Finalisation criteria:	 1 - CDRs and DCT, when appropriate, have been created as a function areas design. 2 - CDRs and DCT, when appropriate, consistency achieved at nation 3 - Vertical and lateral modularity of manageable areas 		ŭ				
		From:	Ву:				
AOM19-ASP08	Improve accuracy of airspace booking	01/12/2010	31/12/2015				
Action by:	ANS Providers						
Description & purpose:	Improve planning and allocation of reserved/segregated airspace at p accuracy. Plan reserved/segregated airspace utilization in accordance with actu Release reserved/segregated non used airspace as soon as activity s has not been planned in AUP (ad-hoc allocation procedure 3).	al need.					
Supporting material(s):	EUROCONTROL - SPEC-112 - EUROCONTROL Specification for the - Edition 1.1 / 01/2009		, ,				
	Url: https://www.eurocontrol.int/publication/eurocontrol-specification-a	application-flexible-use	e-airspace-fua				
ATM Master Plan relationship:	[PRO-009]-Military Procedures to identify and release previously rese	rved airspace back to	civil aviation				
eiauonsiiip:	[PRO-010]-Procedures to ensure that all actors involved in the airspace	ce reservations are we	ell aware about the real				
	status of airspace availability and subsequent changes						
	[PRO-082]-ASM procedures for the promulgation, system delineation change	and acknowledgemer	nt of receipt of the information				
Finalisation criteria:	1 - Reserved/segregated airspace has been used in accordance with Performance Indicators - KPIs - in Pan-European Repository of Inform	nation Supporting Milit	ary KPIs - PRIŚMIL - tool).				
AOM19-ASP09	Deploy automated ASM support systems	From: 01/07/2010	By: 31/12/2015				
Action by:	ANS Providers						
	LARA) automated support system in airspace planning and allocation.		مطفييط لمصمد فالمام				
Supporting material(s):	Use simulation tool for ASM to access optimum airspace allocation. T EUROCONTROL Agency. EUROCONTROL - Local And Regional Airspace Management Suppo 11/2008 Url: http://www.eurocontrol.int/sites/default/files/content/documents/sidescription-20081111.pdf	he simulation tool is to riting System Concept ingle-sky/cm/civil-mil-c	ual Description - Edition 2.0				
Supporting material(s):	Use simulation tool for ASM to access optimum airspace allocation. T EUROCONTROL Agency. EUROCONTROL - Local And Regional Airspace Management Suppo 11/2008 Url: http://www.eurocontrol.int/sites/default/files/content/documents/sidescription-20081111.pdf EUROCONTROL - SPEC-112 - EUROCONTROL Specification for the Edition 1.1 / 01/2009	he simulation tool is to orting System Concept ingle-sky/cm/civil-mil-ore e application of the Fle	ual Description - Edition 2.0 coordination/lara-conceptual exible Use of Airspace (FUA				
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Implement Advanced Airspace Management

AOM19

AOM19	Implement Advanced Airspace Management

	process	01/12/2010	31/12/2015			
Action by:	NM		ı			
Description & purpose:	Take the following actions: - Improve NM system allowing interoperability with stakeholders systems via B2B - Develop procedures for pre-defined Airspace solutions to enhance the ASM/ATFCM process Develop the rolling ASM/ATFCM procedure(s)					
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-imp	rovement-plan-ernip-pa	<u>rt-3</u>			
	EUROCONTROL - SPEC-112 - EUROCONTROL Specification for the a - Edition 1.1 / 01/2009	pplication of the Flexible	e Use of Airspace (FUA)			
	Url: https://www.eurocontrol.int/publication/eurocontrol-specification-app	lication-flexible-use-airs	space-fua			
ATM Master Plan	[PRO-009]-Military Procedures to identify and release previously reserve	ed airspace back to civil	<u>aviation</u>			
relationship:	[PRO-184]-ASM Procedures related to Dynamic co-operative management of the airspace					
	[PRO-185]-FUA Procedures					
Finalisation criteria:	1 - The required procedures and systems have been developed by NM a	and ready for deploymer	nt by civil/military ANSPs			
AOM19-NM02	Upgrade NM systems to allow exchange in real-time of ASM	From:	By:			
	information	01/09/2014	31/12/2016			
Action by:	NM					
Description & purpose:	Network Manager to upgrade NM systems to allow exchange in Real Tir update the central documentation and procedures. This action may lead to a new SLoA for civil and military ANSPs to upgrasystems and to update the local/regional documentation and procedures plan).	ade their local/regional a	automated ASM support			
Supporting material(s):	EUROCONTROL - NM B2B Reference Manuals - access available on re	equest to NM				
	Url: http://www.eurocontrol.int/articles/nm-services-and-products					
	EUROCONTROL - FLEXIBLE USE OF AIRSPACE AMC/CADF OPERA	TIONS MANUAL - Editi	on 5.1			
	Url: http://www.eurocontrol.int/sites/default/files/publication/files/fua-amo	c-cadf-ops-manual-curre	ent.pdf			
ATM Master Plan relationship:	[AAMS-11]-ASM support systems enhanced to exchange real-time airsp	ace status updates				
Finalisation criteria:	1 - The required NM system updates have been implemented.					