



AOM19 — Implement Advanced Airspace Management

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].

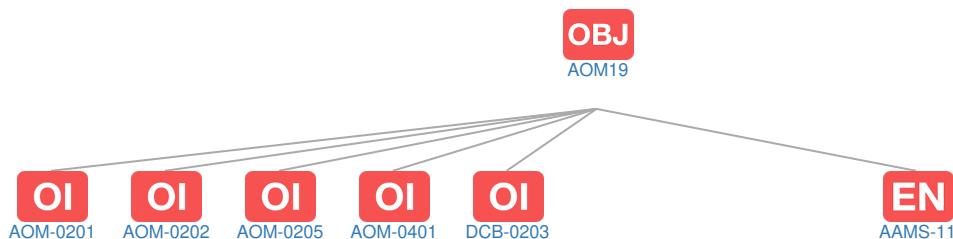
Ultimately, the ASM operations continue until the real-time activation of airspaces or routes. The alignment between both ASM/ATFCM processes shall continue to ensure the assessment of the network impact, the identification of flights affected by real-time modifications, as well as the timely dissemination 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

Edition	2022
Stakeholders	Air Navigation Service Provider / Airspace Users / Network Manager
Type	SESAR
Scope	ECAC
Status	Removed

Context

Related Elements



Applicability Area(s) and Timescales

Applicability Area: All ECAC States

Timescales	From	By	Applicable to
Initial operational capability	01-01-2011	-	Applicability Area
Full operational capability	-	31-12-2016	Applicability Area

Links to ATM Master Plan Level 2

OI Operational Improvement Steps

Code	Title	IOC	FOC	Related Elements
AOM-0201	Moving Airspace Management Into Day of Operation	31-12-2008	31-12-2012	EN OBJ ICAO
AOM-0202	Enhanced Real-time Civil-Military Coordination of Airspace Utilisation	31-12-2019	31-12-2023	OI EN OBJ ICAO
AOM-0205	Modular Temporary Airspace Structures and Reserved Areas	31-12-2008	31-12-2012	OI EN OBJ ICAO
AOM-0401	Multiple Route Options & Airspace Organisation Scenarios	-	-	OI OBJ ICAO
DCB-0203	Enhanced ASM/ATFCM Coordinated Process	31-12-2008	31-12-2012	OI EN OBJ ICAO A A

EN Enablers

Code	Title	IOC	Related Elements
AAMS-11	ASM support systems enhanced to exchange real-time airspace status updates	31-12-2016	STK OI EN OBJ DS PCP

SOL Links to SESAR Solutions

Code	Title	Program	Related Elements
No record found			

PCP Links to PCP ATM Sub-Functionalities

Code	Title	Related Elements
No record found		

ICAO ICAO Block Modules: No associated data

References

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

Applicable ICAO Annexes and other references

None

Deployment Programme 2022

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Operating Environments

Terminal Airspace

En-Route

Network

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

Stakeholder Lines of Action

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

Supporting Material

Title	Related SLoAs
EUROCONTROL - European ATS Route Network (ARN) Version 2013-2015 06/2013 http://www.eurocontrol.int/sites/default/files/publication/files/ernip-part2-arn-v-2013-2015-07062013.pdf	ASP07
EUROCONTROL - European Route Network Improvement Plan (ERNIP) Part 3 - Airspace Management Handbook - Guidelines for Airspace Management - 5.5 / 11/2017 https://www.eurocontrol.int/publication/european-route-network-improvement-plan-ernip-part-3	NM01
EUROCONTROL - FLEXIBLE USE OF AIRSPACE AMC/CADF OPERATIONS MANUAL - Edition 5.1 http://www.eurocontrol.int/sites/default/files/publication/files/fua-amc-cadf-ops-manual-current.pdf	NM02
EUROCONTROL - Local And Regional Airspace Management Supporting System Conceptual Description - Edition 2.0 / 11/2008 http://www.eurocontrol.int/sites/default/files/content/documents/single-sky/cm/civil-mil-coordination/lara-conceptual-description-20081111.pdf	ASP09
EUROCONTROL - NM B2B Reference Manuals - access available on request to NM http://www.eurocontrol.int/articles/nm-services-and-products	NM02
EUROCONTROL - SPEC-112 - EUROCONTROL Specification for the application of the Flexible Use of Airspace (FUA) - Edition 1.1 / 01/2009 https://www.eurocontrol.int/publication/eurocontrol-specification-application-flexible-use-airspace-fua	ASP04, ASP05, ASP08, ASP09, ASP10, NM01

Consultation & Approval

Working Arrangement in charge	NETOPS
Outline description approved in	03/2013
Latest objective review at expert level	05/2014
Commitment Decision Body	Provisional Council (PC)
Objective approved/endorsed in	07/2010
Latest change to objective approved/endorsed in	07/2014