С	P1	Active					E	CAC+		
AON	/l19.4	Management of Predefined Airspace Configurations								
REG	ASP	MIL	APO	USE	INT	IND	NM	MET	AIS	USP

Subject matter and scope

Predefined Airspace Configuration is a predefined and coordinated organisation of routes and their associated airspace structures, temporary airspace reservations and predefined ATC sectorisation, to meet civil/military airspace users' needs and increase performance in terms of capacity and/or flight efficiency, applicable both in free route (FRA) and in fixed-route network environments.

Predefined Airspace configurations are activated for a specific geographic area and/or time period at pre-tactical level through a CDM process involving the AMCs, NM, ATFCM, ATC and airspace users. The notification of predefined Airspace Configurations will be based on automatic flows of information between the different stakeholders provided by the Network Manager. The optimal organisation of airspace structures, such as the allocation of temporary airspace reservations, is achieved through the ASM solutions process that aims at delivering options that can fulfil military needs while improving flight efficiency and alleviating capacity problems identified in any specific area within the European airspace.

This collaborative process is based on the partnership between ANSPs, NM, AOs and the military collaborating to make the best decision to satisfy civil and military requirements and improve performance achievements. One of the ASM options is the utilisation of airspace scenarios composed by different predefined airspace configurations.

The Predefined Airspace Scenarios provide a coordinated set of temporary airspace reservations identifying a possible ASM Solution supporting the ASM/ATFCM CDM process. It is managed as a stand-alone scenario or supporting an associated Airspace Configuration.

The identification and the development of predefined airspace configurations and scenarios is executed by relevant actors, at strategic level: the High Level Airspace Policy Body (HLAPB or its equivalent; at national and sub-regional level), with participation of the civil and military airspace users as appropriate, supported by the Network Manager.

The system requirements enabling the implementation of this objective are as follows:

- The Network Manager, as well as local ATM system, shall facilitate an automatic flow of information between the different stakeholders for the identification of optimal predefined Airspace Configurations;
- NM systems shall facilitate the management of predefined airspace scenarios among ATM partners and the notification to AUs/CFSPs of the temporary airspace reservations;
- The Network impact assessment shall be carried out by NM systems before the application of predefined airspace configurations and scenarios;
- The NM systems shall support the predefined airspace configurations in any fixed route or FRA environment;
- ASM/ATFCM systems and ATC systems shall support the full sharing of the airspace configuration inputs and outputs in any fixed route or FRA environment;
- In alternative to local ASM/ATFCM systems and ATC systems, stakeholders may use NM systems and applications (CHMI, CIAM) to support sharing of predefined airspace configuration.
- The ATC system shall support the dynamic configuration of sectors in order to optimize their dimensions and operating hours in accordance with the traffic demands of the NOP.

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 1	Area 1 All EU SES States					
Applicability Area 2 Albania, Azerbaijan, Bosnia and Herzegovina, Türkiye, Ukraine, United Kingdom						
Timescales:		From:	Ву:	Applicable to:		
Initial operational capability	01/01/2018		Applicability Area 1 + Applicability Area 2			
Full Operational Capability / Target Date			31/12/2022	Applicability Area 1 + Applicability Area 2		

References

European ATM Master Plan

OI step -	[AOM-0202-A]-Automated Support for strategic, pre-tactical and tactical Civil-Military Coordination in Airspace Management (ASM).								
	Enablers -	AAMS-06b AOM19.5	AAMS-09a AOM19.5	AAMS-11 AOM19.5	AIMS-06	ER APP ATC	MIL-0502	NIMS-42 AOM19.5	PRO-011 AOM19.5

AO	AOM19.4 Management of Predefined Airspace Configuration				ations					
		PRO-024 AOM19.5	SWIM-AF 02a	PS- SWIM-AF	PS- SWIM-INFR- 05a	SWIM-NET- 01a				
Ol step -	[AOM-0206-	- -A]-Flexible and	modular Al	RES in accorda	nce with the VPA d	esign principle				
	Enablers -	AAMS-06b AOM19.5	AAMS-0 AOM19.		AOC-ATM-15	ER APP ATC 77	SWIM-AI 03a	- -	M-APS- 04a	SWIM-INFR- 05a
		SWIM-NET- 01a								
OI step -	[CM-0102-A]-Dynamic Sect	orisation ba	sed on comple	<u>xity</u>					
	Enablers -	CTE-C05a COM11.1, COM11.2	CTE-C05 COM11.1 COM11.	ER APP A	ER APP ATC 93 FCM06.1					
Legend:	WXYZ-001	Covered by S this objective	LoA(s) in	WXYZ-002 zzz	17.1			vered in the nentation Plan		

Applicable legislation

- COMMISSION IMPLEMENTING REGULATION (EU) 2021/116 of 1 February 2021 on the establishment of the Common Project One supporting the implementation of the European Air Traffic Management Master Plan provided for in Regulation (EC) No 550/2004 of the European Parliament and of the Council, amending Commission Implementing Regulation (EU) No 409/2013 and repealing Commission Implementing Regulation (EU) No 716/2014

Essential Operational Changes

Fully Dynamic and Optimised Airspace

SESAR Solution

#31 - Variable profile military reserved areas and enhanced (further automated) civil-military collaboration, #66 - Automated Support for Dynamic Sectorisation

ICAO GANP - ASBUs

FRTO-B1/4	Dynamic sectorization
NOPS-B1/6	Initial Dynamic Airspace configurations

Deployment Programme

0.4.0	Management of Dundofinad Airpropa Confiningtions
3.1.2	Management of Predefined Airspace Configurations

European Plan for Aviation Safety

- none -

Operating Environments

En-Route Network

Terminal Airspace

Stakeholder Lines of Action (SLoAs)

SloA ref. Title From By AOM19.4-ASP01 Define and Implement procedures in support of an improved ASM solution process 01/01/2018 31/12/2022 AOM19.4-ASP02 Adapt ATC/ASM systems to support the management of predefined airspace configurations and scenarios AOM19.4-ASP03 Use NM systems and applications 01/01/2018 31/12/2022 AOM19.4-ASP04 Safety Assessment 01/01/2018 31/12/2022 AOM19.4-ASP05 Training 01/01/2018 31/12/2022 AOM19.4-ASP06 Operational use 01/01/2018 31/12/2022 AOM19.4-NM01 Define and Implement procedures in support of an improved management of predefined airspace configurations and scenarios				
AOM19.4-ASP02 Adapt ATC/ASM systems to support the management of predefined airspace configurations and scenarios 01/01/2018 31/12/2022 AOM19.4-ASP03 Use NM systems and applications 01/01/2018 31/12/2022 AOM19.4-ASP04 Safety Assessment 01/01/2018 31/12/2022 AOM19.4-ASP05 Training 01/01/2018 31/12/2022 AOM19.4-ASP06 Operational use 01/01/2018 31/12/2022 AOM19.4-NM01 Define and Implement procedures in support of an improved management of 01/01/2018 31/12/2022	SloA ref.	Title	From	Ву
configurations and scenarios AOM19.4-ASP03 Use NM systems and applications 01/01/2018 31/12/2022 AOM19.4-ASP04 Safety Assessment 01/01/2018 31/12/2022 AOM19.4-ASP05 Training 01/01/2018 31/12/2022 AOM19.4-ASP06 Operational use 01/01/2018 31/12/2022 AOM19.4-NM01 Define and Implement procedures in support of an improved management of 01/01/2018 31/12/2022	AOM19.4-ASP01	Define and Implement procedures in support of an improved ASM solution process	01/01/2018	31/12/2022
AOM19.4-ASP04 Safety Assessment 01/01/2018 31/12/2022 AOM19.4-ASP05 Training 01/01/2018 31/12/2022 AOM19.4-ASP06 Operational use 01/01/2018 31/12/2022 AOM19.4-NM01 Define and Implement procedures in support of an improved management of 01/01/2018 31/12/2022	AOM19.4-ASP02		01/01/2018	31/12/2022
AOM19.4-ASP05 Training 01/01/2018 31/12/2022 AOM19.4-ASP06 Operational use 01/01/2018 31/12/2022 AOM19.4-NM01 Define and Implement procedures in support of an improved management of 01/01/2018 31/12/2022	AOM19.4-ASP03	Use NM systems and applications	01/01/2018	31/12/2022
AOM19.4-ASP06 Operational use 01/01/2018 31/12/2022 AOM19.4-NM01 Define and Implement procedures in support of an improved management of 01/01/2018 31/12/2022	AOM19.4-ASP04	Safety Assessment	01/01/2018	31/12/2022
AOM19.4-NM01 Define and Implement procedures in support of an improved management of 01/01/2018 31/12/2022	AOM19.4-ASP05	Training	01/01/2018	31/12/2022
	AOM19.4-ASP06	Operational use	01/01/2018	31/12/2022
	AOM19.4-NM01	Define and Implement procedures in support of an improved management of predefined airspace configurations and scenarios	01/01/2018	31/12/2022

Implementation Plan Edition 2022

AOM19.4	Management of Predefined Airspace Config	Predefined Airspace Configurations				
AOM19.4-NM02	Adapt NM systems to support the management of predefined airspace configurations and scenarios	01/01/2018	31/12/2022			
AOM19.4-NM03	Safety Assssment	01/01/2018	31/12/2022			
AOM19.4-NM04	Training	01/01/2018	31/12/2022			
AOM19.4-NM05	Operational use	01/01/2018	31/12/2022			

Expected Performance Benefits

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

Safety: Improved safety due to increased situational awareness of supervisors.

Capacity: Increased capacity due to better use of available resources, both human and airspace.

Operational Efficiency: Reduced saturation periods and flight delays. Improved operational efficiency.

Cost Efficiency: Increased cost efficiency.
Environment: Reduced fuel burn and emissions.

Security:

Detailed SLoA Descriptions

	The state of the s				
	Define and Implement procedures in support of an improved ASM	From:	Ву:		
AOM19.4-ASP01	solution process	01/01/2018	31/12/2022		
Action by:	ANS Providers				
Description & purpose:	Define and implement procedures supporting ASM solutions process for the management of predefined Airspace configurations and scenarios, through a CDM process in coordination with NM and concerned stakeholders.				
	Note :This SLoA needs to be synchronised between civil and military AN	SPs, AUs and NM.			
Supporting material(s):	SDM - Standardisation and Regulation support to CP1 deployment 2021	, Deliverable D1.1.1 07/	2021		
	Url: https://www.sesardeploymentmanager.eu/publications/deployment-	<u>programme</u>			
Finalisation criteria:	1 - The predefined airspace configuration and scenario concepts and relaby the national and sub-regional (FAB) High Level Airspace Policy Bodie				
101110 1 10000	Adapt ATC/ASM systems to support the management of	From:	By:		
AOM19.4-ASP02	predefined airspace configurations and scenarios	01/01/2018	31/12/2022		
Action by:	ANS Providers				
Description & purpose:	Adapt ATC/ASM systems including:				
	Note :This SLoA needs to be synchronised between civil and military ANSPs.				
0	AOM19.4-ASP02 and AOM19.4-ASP03 can be implemented in parallel.	Dalimarahla D4 4 4 07/	(0004		
Supporting material(s):	SDM - Standardisation and Regulation support to CP1 deployment 2021 Url: https://www.sesardeploymentmanager.eu/publications/deployment-		ZUZ I		
ATM Master Plan relationship:	[ER APP ATC 15]-Flight Data Processing: support Dynamic Sectorisation [ER APP ATC 77]-ATC Systems enhanced to exchange real-time (taction system)	on and Dynamic Constra			
Finalisation criteria:	1 - ATC/ASM systems have been adapted				
		From:	Ву:		
AOM19.4-ASP03	Use NM systems and applications	01/01/2018	31/12/2022		
Action by:	ANS Providers				
Description & purpose:	Use NM systems and applications (CHMI, CIAM) for the provision of airs sector configurations and ASM scenarios).	pace configuration and	scenarios inputs (ATC		
	Note :This SLoA needs to be synchronised between civil and military AN	SPs and NM.			
	AOM19.4-ASP02 and AOM19.4-ASP03 can be implemented in parallel.				
Supporting material(s):	SDM - Standardisation and Regulation support to CP1 deployment 2021	, Deliverable D1.1.1 07/	/2021		
	Url: https://www.sesardeploymentmanager.eu/publications/deployment-				
Finalisation criteria:	1 - NM systems and applications are being used				
		From:	By:		
AOM19.4-ASP04	Safety Assessment	01/01/2018	31/12/2022		
Action by:	ANS Providers				
	ı.				

AOM19.4 Management of Predefined Airspace Configurations

Description & purpose:	The safety assessment of the changes must be developed and deliver	ed to the competent a	authority.
inalisation criteria:	1 - Safety assessment has been developed and delivered to the comp	etent authority.	
AOMAO A ACDOE	Tesining	From:	By:
AOM19.4-ASP05	Training	01/01/2018	31/12/2022
ction by:	ANS Providers		
escription & purpose:	All relevant staff must be duly trained.		
inalisation criteria:	1 - Training has been completed.		
AOM19.4-ASP06	Operational use	From:	By:
7.0	oporational acc	01/01/2018	31/12/2022
ction by:	ANS Providers		
Description & purpose:	Management of Predefined Airspace Configurations is in operational uprocedures are in place, the safety assessment has been delivered ar		
inalisation criteria:	1 - Management of Predefined Airspace Configurations is put into serv	rice	
	Define and Implement procedures in support of an improved	From:	Ву:
AOM19.4-NM01	management of predefined airspace configurations and scenarios	01/01/2018	31/12/2022
ction by:	NM		
Description & purpose:	Once AOM19.4-ASP01 and AOM19.4-ASP02 have been completed, or solutions process for the management of predefined Airspace configured Handbook).		
	Note :This SLoA needs to be synchronised between civil and military A	ANSPs, AUs and NM.	
supporting material(s):	SDM - Standardisation and Regulation support to CP1 deployment 20	•	1 07/2021
	Url: https://www.sesardeploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.	nt-programme	
inalisation criteria:	1 - Procedures have been defined and promulgated		
AOM19.4-NM02	Adapt NM systems to support the management of predefined airspace configurations and scenarios	From: 01/01/2018	By: 31/12/2022
Action by:	NM		l l
Description & purpose:	Adapt NM systems including: • system changes and technical solutions needed for predefined airsp. • sharing of predefined airspace configuration and scenarios inputs an	•	d scenarios;
Supporting material(s):	SDM - Standardisation and Regulation support to CP1 deployment 20 Url : https://www.sesardeploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.e		1 07/2021
inalisation criteria:	1 - NM systems have been adapted.		
		From:	Ву:
AOM19.4-NM03	Safety Assssment	01/01/2018	31/12/2022
Action by:	NM		
escription & purpose:	The safety assessment of the changes must be developed and deliver	ed to the competent a	authority.
Supporting material(s):	SDM - Standardisation and Regulation support to CP1 deployment 20	21, Deliverable D1.1.	1 07/2021
	Url: https://www.sesardeploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.eu/publications/deploymentmanager.	nt-programme	
inalisation criteria:	1 - Safety assessment has been developed and delivered to the comp	etent authority.	
AOM19.4-NM04	Training	From:	Ву:
AOM 19.4-INIO4	Training	01/01/2018	31/12/2022
action by:	NM		
Ction by.	All relevant staff asset has disherted and		
	All relevant staff must be duly trained.		
Description & purpose:	1 - Training has been completed.		
Description & purpose:	•	From: 01/01/2018	By: 31/12/2022
Description & purpose: Finalisation criteria: AOM19.4-NM05	1 - Training has been completed.		
Description & purpose: Finalisation criteria:	1 - Training has been completed. Operational use	01/01/2018 use once the systems	31/12/2022 have been implemented, the