CP1		Active							EC	CAC+
INF	10.4		Aero	nautical Inf	ormation E	xchange - /	Airspace Av	ailability Se	ervice	
REG	ASP	MIL	APO	USE	INT	IND	NM	MET	AIS	USP

Subject matter and scope

SWIM comprises standards, infrastructure and governance enabling the management of information and its exchange between operational stakeholders via interoperable services.

This implementation objective is addressing one of the services in support of Airspace Management and Advanced Flexible Use of Airspace

- ASM Level 1 is the strategic level of FUA, with the involvement of relevant civil and military stakeholders. ASM Level 1 establishes airspace structures and defines their conditions of use, it includes exchange of long-term airspace planning e.g. major exercises and events. The management of airspace structures are applied during pre-tactical and tactical phases
- ASM Level 2 deals with the pre-tactical reservation of the airspace structures. The following services support the ASM level 2:
- o Airspace Structure Service Management of the AUP/UUP by the local ASM support systems requires that the same airspace data is used by both NM and the ASM support systems. The airspace data is available via NM B2B Airspace Structure Service, which allows to obtain in AIXM 5.1 all the airspace data needed by the local ASM support systems for the management of the AUP (AIRAC data and the live updates)
- o Airspace Availability Service part of the NM B2B Services, allows the local ASM support systems to provide the AUP and its dynamic updates (UUP) to NM in a timely manner; it also allows NM to share the local AUPs/UUPs with all stakeholders involved in the ASM Level 2. It also allows also the publication of the consolidated European AUP/UUP (EAUP/EUUP) to all stakeholders, AUs, for use in the flight planning systems
- o Airspace Reservation (ARES) information: this service allows the exchange of information regarding ARES between local ASM support systems, in particular to support cross-border operations
- ASM Level 3 deals with the tactical activation and deactivation of the airspace structures. The following services support the ASM level 3:
 - o Notification of the activation of an Airspace Reservation/Restriction (ARES)
 - o Notification of the de-activation of an Airspace Reservation/Restriction (ARES)
 - o Pre-notification of the activation of an Airspace Reservation/Restriction (ARES)
 - o Notification of the release of an Airspace Reservation/Restriction (ARES)
 - o Query Airspace Reservation/Restriction (ARES) information

System requirements

- Local ASM support systems shall exchange ARES information with relevant civil and military stakeholders at local and FAB level via SWIM Services
- · Local ASM support systems shall provide the AUP/UUP information to NM via the NM B2B Airspace Availability Service
- Local ASM support systems shall consume the airspace information required for interoperability with NM via the NM B2B Airspace Structure Service
- The AU systems shall use the EAUP/EUUP published by NM via the NM B2B Airspace Availability Service
- The NM system shall make the NM B2B Airspace Availability Service SWIM compliant
- The NM system shall make the NM B2B Airspace Structure Service SWIM compliant
- ATC systems shall consume the information related to real-time activation and deactivation of ARES provided by the local ASM support systems

The current implementation objective is addressing the Airspace Availability service.

NOTE: For a full description of the services as well as of the associated system requirements, see the Family 5, in the SESAR Deployment Programme edition 2022, Approved by the European Commission.

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 All EU SES Sta		EU SES States					
Applicability Area 2	United Kingdom						
Timescales:		From:	Ву:	Applicable to:			
Initial Operational Capability	01/01/2021		Applicability Area 1 + Applicability Area 2				

INF10.4 Aeronautical Information Exchange - Airspace Availability Service Full Operational Capability / Target Date 31/12/2025 Applicability Area 1 + Applicability Area 2

References

European ATM Master Plan

OI step -	[IS-0901-A]-SWIM-TI Yellow Profile for Ground/Ground (G/G) information sharing								
	Enablers -	REG-0519	SWIM-GOV- 05a	SWIM-INFR- 05a	SWIM-NET- 01a	SWIM-SUPT- 01a	SWIM-SUPT- 03a		

1	WXYZ-001	Covered by SLoA(s) in	WXYZ-002	Covered by SLoA(s) in another objective	WXYZ-	Not covered in the
Legend:	VVXYZ-001	this objective	ZZZ	Objective covering the enabler	003	Implementation Plan

Applicable legislation

Regulation (EU) 2021/116 on the establishment of the Common Project One

Essential Operational Changes

ATM Interconnected Network

SESAR Solution

#46 - SWIM Yellow Profile

ICAO GANP - ASBUs

- none -

Deployment Programme

5.3.1 Aeronautical Information Exchange

European Plan for Aviation Safety

- none -

Operating Environments

Airport

En-Route

Network

Terminal Airspace

Stakeholder Lines of Action (SLoAs)

SloA ref.	Title	From	Ву
INF10.4-ASP01	Adapt/ Implement ASM system to Provide the AUP/UUP to NM	01/01/2021	31/12/2025
INF10.4-USE01	Consume the pan-European airspace availability information	01/01/2021	31/12/2025
INF10.4-USE02	Operational use	01/01/2021	31/12/2025
INF10.4-NM01	Provide the AUP/UUP management services	01/01/2021	31/12/2025
INF10.4-NM02	Provide pan-European airspace availability information	01/01/2021	31/12/2025
Description of finalise	and deleted CL and is evailable on the enTM Portal @ https://www.cotmportal	au/warking/dapl/again ak	doctivos

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

Expected Performance Benefits

Safety:
Capacity:
Operational Efficiency:
Cost Efficiency:
Environment:
Security:

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INF10.4

Aeronautical Information Exchange - Airspace Availability Service

Detailed SLoA Descriptions

	Detailed SLoA Descriptions	From:	By:					
INF10.4-ASP01	Adapt/ Implement ASM system to Provide the AUP/UUP to NM	Applicability Area	Applicability Area 1: 31/12/2025					
		01/01/2021						
Action by:	ANS Providers							
Description & purpose:	The local ASM support system provides the AUP/UUP to NM via the NM B2B Airspace Availability Services This SLoA supports the SLoA,AOM19.5-ASP05 "Implement interoperability of ASM support systems with NM system".							
	Note :Note that ANSPs may decide to use the NM system ASM capabi management of the AUP/UUP. This SLoA only applies for those ANSP ANSPs using CIAM should report this SLoA as "Not Applicable".	s that have their own AS	eemed sufficient for the M support system.					
	This SLoA needs to be synchronised between civil and military ANSPs	and NM.						
Supporting material(s):	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021							
	Jrl: https://www.sesardeploymentmanager.eu/publications/deployment-programme							
Finalisation criteria:	1 - The local ASM tool provides the AUP/UUP to NM							
INF10.4-USE01	Consume the pan-European airspace availability information	From: Applicability Area 1: 01/01/2021	By: Applicability Area 1 31/12/2025					
Action by:	Airspace Users							
Description & purpose:	The AU's flight planning system consumes and uses the European Airs published by the NM via the NM B2B Airspace Availability Service This SLoA supports the SLoA AOM19.5-USE01 "Adapt airspace users information"	. ,	, , ,					
	Note :This SLoA needs to be synchronised between AUs and NM.	M. Dalivarahla D4 4 4 07	1/0004					
Supporting material(s):	SDM - Standardisation and Regulation support to CP1 deployment 202	•	/2021					
	Url: https://www.sesardeploymentmanager.eu/publications/deploymen	t-programme						
inalisation criteria: 1 - The AUs' system consumes and processes the EAUP/EUUP								
		From:	By:					
INF10.4-USE02	Operational use	Applicability Area 1: 01/01/2021	Applicability Area 1 31/12/2025					
Action by:	Airspace Users							
Description & purpose:	The system is used to support daily operations once the systems have been implemented, the procedures are in place the capability assessment has been delivered, and the training has been completed.							
Supporting material(s):	SDM - Standardisation and Regulation support to CP1 deployment 202 Url: https://www.sesardeploymentmanager.eu/publications/deploymen		7/2021					
Finalisation criteria:	1 - Information Exchanges are used for daily operations							
	, , , , , , , , , , , , , , , , , , ,	From:	By:					
INF10.4-NM01	Provide the AUP/UUP management services	Applicability Area 1: 01/01/2021	Applicability Area 1 31/12/2025					
Action by:	NM	<u>'</u>						
Description & purpose:	The NM system provides services for the exchange of AUP/UUP inform services are part of the NM B2B Airspace Availability Service, which is This SLoA supports the SLoA AOM19.5-NM01 "Adapt NM systems to see the content of the NM systems to see the content of the NM systems to see the NM supports the SLoA AOM19.5-NM01 "Adapt NM systems to see the NM sys	upgraded to be SWIM co	ompliant.					
	Note :This SLoA needs to be synchronised between civil and military A	NSPs and NM.	<u> </u>					
Supporting material(s):	SDM - Standardisation and Regulation support to CP1 deployment 202		7/2021					
	Url: https://www.sesardeploymentmanager.eu/publications/deploymen	t-programme						
	1 - The NM B2B Airspace Availability service is SWIM compliant and a	vailable in the SWIM Req	gistry as an operational					
Finalisation criteria:	SWIM compliant service.							
Finalisation criteria:		From:	Ву:					
Finalisation criteria:		Applicability Area 1:	By: Applicability Area 1 31/12/2025					
INF10.4-NM02	SWIM compliant service.	Applicability Area	Applicability Area 1					
INF10.4-NM02 Action by:	SWIM compliant service.	Applicability Area 1:	Applicability Area 1					
INF10.4-NM02	SWIM compliant service.	Applicability Area 1: 01/01/2021	Applicability Area 1 31/12/2025					

INF10.4	Aeronautical Information Exchange - Airspace Availability Service
Finalisation criteria:	1 - The NM B2B Airspace Availability Service is SWIM compliant and available in the SWIM Registry as an operational SWIM compliant service