OBJ

INF10.4 — Aeronautical Information Exchange - Airspace Availability Service

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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.

Edition	2022
Stakeholders	Air Navigation Service Provider / Airspace Users / Network Manager
Type	CP1
Scope	ECAC+
Status	Active

Context

Related Elements

OBJ
INF10.4

OI
IS-0901-A

Applicability Area(s) and Timescales

Applicability Area 1:	All EU SES States
	(All EU SES States)
Applicability Area 2:	Israel

Timescales	From	By	Applicable to
Initial Operational Capability	01-01-2021	-	Applicability Area 1 + Applicability Area 2
Full Operational Capability / Target Date	-	31-12-2025	Applicability Area 1 + Applicability Area 2

Links to ATM Master Plan Level 2

OI Operational Improvment Steps

Code	Title	IOC	FOC	Related Elements
IS-0901-A	SWIM for sharing G/G data, traffic flow management information and aeronautical information	31-12-2023	31-12-2029	SOL OI EN OBJ DS PCP ICAO

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

Source: European ATM Portal - **Report produced:** 28-04-2024 - **Date refresh:** 28-09-2023
EATMA data version: EATMA V12.1 - **ATM Master Plan data set version:** Dataset 19 Public - **MP L3 Edition:** MP L3 Plan 2022

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References

Applicable legislation
Regulation (EU) 2021/116 on the establishment of the Common Project One
Applicable ICAO Annexes and other references
None
Deployment Programme 2022
Family 5.3.1 - Aeronautical Information Exchange
Operating Environments
-

Expected Performance Benefits

Safety	-
Capacity	-
Operational efficiency	-
Cost efficiency	-
Environment	-
Security	-

Stakeholder Lines of Action

Code	Title	From	By	Related Enablers
ASP01	Adapt/ Implement ASM system to Provide the AUP/UUP to NM	01-01-2021	31-12-2025	
USE01	Consume the pan-European airspace availability information	01-01-2021	31-12-2025	
USE02	Operational use	01-01-2021	31-12-2025	
NM01	Provide the AUP/UUP management services	01-01-2021	31-12-2025	
NM02	Provide pan-European airspace availability information	01-01-2021	31-12-2025	

Supporting Material

Title	Related SLoAs
SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 https://www.sesardeploymentmanager.eu/publications/deployment-programme	ASP01, NM01, NM02, USE01, USE02

Consultation & Approval

Working Arrangement in charge	-
Outline description approved in	-
Latest objective review at expert level	-
Commitment Decision Body	-
Objective approved/endorsed in	-
Latest change to objective approved/endorsed in	-

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