



INF10.7 — Aeronautical Information Exchange - Aerodrome mapping 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 the Aerodrome Mapping Service which provides on-request airport layout features and maps as a data service. The service aims to deliver Aerodrome digital maps to operational stakeholders. The service supports information filtering with spatial, temporal and logical operators. Digital Aerodrome Map can be used to present actual/real-time information about closure of runway, taxiway, work in progress on aerodrome movement area, temporary erected obstacles.

Airspace users are not mandated to implement this, but it is recommended that Airspace Users system consume and use the information provided by the Airport Mapping Information Service provided by AISP in daily operations.

System requirements

The Aerodrome Mapping information exchange shall be implemented by:

- Airports that are the primary data provider supporting the Aerodrome mapping service. AISPs are the primary provider of the service
- AUs that are the recommended primary consumers of the service and the information it provides

The provider of the Aerodrome Mapping Service ensures that systems implementing the service:

- May allow selecting aerodrome features and maps as GIS layers.
- May allow information filtering with spatial, temporal and logical operators.
- May output data in formats based on Open Geospatial Consortium standards (e.g. simple GML features, SHAPE files, GeoJSON)
- May be based on the AMXM to facilitate GIS integration. Using AMXM will satisfy the related EUROCAE WG-44 Industry standards in terms of data formatting, as referenced in the SDP Supporting Material.

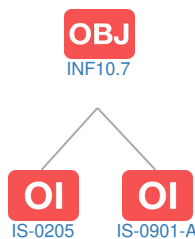
NOTE: For a full description of the services as well as of the associated system requirements, see the Family 5, in the SESAR Deployment Programme edition 2022, Approved by the European Commission.

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	
Type	CP1
Scope	ECAC+
Status	Active

Context

Related Elements



Applicability Area(s) and Timescales

Applicability Area 1:	All EU SES States (All SES EU States)
Applicability Area 2:	Israel, Moldova, Montenegro, Morocco, Serbia, United Kingdom

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 Improvement Steps

Code	Title	IOC	FOC	Related Elements
IS-0205	Digital Integrated Briefing for pre-flight phase	31-12-2023	31-12-2030	SOL OI EN OBJ DS ICAO
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

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
AIS01	Provide aerodrome Mapping information service	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	AIS01

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	-