



# INF10.9 — Meteorological Information Exchange - Volcanic Ash Mass Concentration information service

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The ability to establish a collaborative environment within ATM and to move to Trajectory Based Operations depends on the sharing, between all operational stakeholders, of a similar picture of an environment in which flights operate. It requires a wide range of meteorological information to be shared and made available simultaneously to all ATM actors with minimum delay.

This implementation objective is addressing the Volcanic Ash Mass Concentration Service. All volcanic ash advisory information and the supplementary ash concentration information shall be available as a service(s) in compliance with the EUROCONTROL SWIM specifications. The service shall be implemented focusing on provision of volcanic ash concentration information. However, other related information concerning an operationally significant volcanic ash event, will also be considered when implemented as a SWIM service. Volcanic ash SWIM services will be provided by the designated VAAC(s) and available to be accessed by all relevant stakeholders in Europe, including military. Ideally, all stakeholders that use current VA advisory and VA concentration products, will implement the same using the new SWIM service. Volcanic ash service must support exchange of volcanic ash information in IWXXM format, when applicable.

Airspace Users are not mandated, but it is recommended that Airspace Users will be able to access and consume the volcanic ash SWIM information services published by the VAACs. This may require cooperation from any entities that provide flight planning and monitoring functions and that the Airspace Users system uses the volcanic ash information Service.

## System requirements

The service(s) will allow for the processing and potential visualisation of safety critical information related to real-time volcanic activity within European airspace and forecasts of anticipated movement and concentration of ash in the atmosphere that is relevant to aviation. VAACs shall implement service(s) supporting Volcanic Ash Mass Concentration information exchange in case of volcanic eruption and supporting activities provided in EUR/NAT VACP.

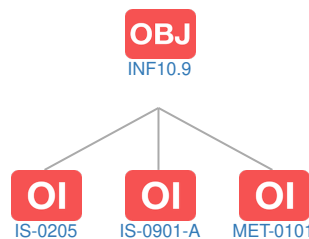
*NOTE: For a full description of the services as well as of the associated system requirements, see the Family 5, in the SESAR Deployment Programme edition 2022, Approved by the European Commission.*

*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.*

<b>Edition</b>	2022
<b>Stakeholders</b>	Air Navigation Service Provider / Network Manager
<b>Type</b>	CP1
<b>Scope</b>	ECAC+
<b>Status</b>	Active

## Context

### Related Elements



## Applicability Area(s) and Timescales

<b>Applicability Area 1:</b>	All EU SES States (All EU SES States)
<b>Applicability Area 2:</b>	Georgia, Israel, 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
MET-0101	Enhanced MET observations, nowcasts and forecasts provided by ATM-MET systems for planning and near term services	31-12-2022	31-12-2026	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 5.4.1 - Meteorological 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	Consume Volcanic Ash Mass concentration service(s)	01-01-2021	31-12-2025	
ASP02	Operational use	01-01-2021	31-12-2025	
NM01	Consume Volcanic Ash Mass concentration service(s)	01-01-2021	31-12-2025	
NM02	Operational use	01-01-2021	31-12-2025	
MET01	Provide Volcanic Ash Mass service(s)	01-01-2021	31-12-2025	
MET02	Consume Volcanic Ash Mass concentration service(s)	01-01-2021	31-12-2025	
MET03	Operational use	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 <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a>	ASP01, ASP02, MET01, MET02, MET03, NM01, NM02

## 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	-