

CP1	Active							EU		
INF10.12	Meteorological Information Exchange - Network Meteorological Information									
REG	ASP	MIL	APO	USE	INT	IND	NM	MET	AIS	USP

## Subject matter and scope

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 Network Manager Meteorological Information Service, the needs and requirements for MET information support. This may (for example) focus on impactful weather events which affect En-Route flight phases and cross-border or affect the ability of critical/busiest aerodromes to maintain flow rates. The NM will liaise also with other ATM stakeholders and synchronise their implementation plans.

**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)

<b>Applicability Area 1</b>	All EU SES States		
<b>Applicability Area 2</b>	Azerbaijan, United Kingdom		
<b>Timescales:</b>	<b>From:</b>	<b>By:</b>	<b>Applicable to:</b>
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

## References

### European ATM Master Plan

OI step -	<a href="#">[IS-0205]-Digital Integrated Briefing for pre-flight phase</a>								
	Enablers -	AIMS-06	AIMS-07a	AIMS-19a	METEO-04b	METEO-05b	REG-0301	SWIM-APS-01a	SWIM-APS-02a
		SWIM-INFR-05a	SWIM-NET-01a	SWIM-STD-01					
OI step -	<a href="#">[IS-0901-A]-SWIM-TI Yellow Profile for Ground/Ground (G/G) information sharing</a>								
	Enablers -	REG-0519	SWIM-GOV-05a	SWIM-INFR-05a	SWIM-NET-01a	SWIM-SUPT-01a	SWIM-SUPT-03a		
OI step -	<a href="#">[MET-0101]-Enhanced MET observations, nowcasts and forecasts provided by ATM-MET systems for planning and near term services</a>								
	Enablers -	METEO-03	METEO-04b	METEO-05b	METEO-06b	METEO-08b			

Legend:	WXYZ-001	Covered by SLoA(s) in this objective	WXYZ-002 zzz	Covered by SLoA(s) in another objective Objective covering the enabler	WXYZ-003	Not covered in the Implementation Plan
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### Applicable legislation

Regulation (EU) 2021/116 on the establishment of the Common Project One
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### Essential Operational Changes

ATM Interconnected Network
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### SESAR Solution

#34 - Digital Integrated Briefing, #35 - MET Information Exchange, #46 - SWIM Yellow Profile
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### ICAO GANP - ASBUs

- none -
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### Deployment Programme

5.4.1	Meteorological Information Exchange
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### European Plan for Aviation Safety

- none -	
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### Operating Environments

Airport
En-Route
Network
Terminal Airspace

## Stakeholder Lines of Action (SLoAs)

SLoA ref.	Title	From	By
INF10.12-ASP01	Determine and help define requirements for new network MET information services	01/01/2021	31/12/2025
INF10.12-ASP02	Consume network MET information services	01/01/2021	31/12/2025
INF10.12-ASP03	Operational use	01/01/2021	31/12/2025
INF10.12-MET01	Determine and help define requirements for new network MET information services	01/01/2021	31/12/2025
INF10.12-MET02	Provide Network MET information services	01/01/2021	31/12/2025
INF10.12-MET03	Provide enhanced network MET information services	01/01/2021	31/12/2025
INF10.12-NM01	Determine and help define requirements for new network MET information services	01/01/2021	31/12/2025
INF10.12-NM02	Consume network MET information services	01/01/2021	31/12/2025
INF10.12-NM03	Operational use	01/01/2021	31/12/2025

Description of finalised and deleted SLoAs is available on the eATM Portal @ [https://www.eatmportal.eu/working/depl/essip\\_objectives](https://www.eatmportal.eu/working/depl/essip_objectives)

## Expected Performance Benefits

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

## Detailed SLoA Descriptions

<b>INF10.12-ASP01</b>	<b>Determine and help define requirements for new network MET information services</b>	<b>From:</b> <b>Applicability Area 1:</b> 01/01/2021	<b>By:</b> <b>Applicability Area 1:</b> 31/12/2025
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	The ANSPs operating in the ATFM and network domains will collaborate with NM, AUs and the MET provider(s) to jointly define requirements for new advanced MET service(s) to better support operations specific to the NM		
<b>Supporting material(s):</b>	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a>		
<b>Finalisation criteria:</b>	1 - The agreed requirements are documented.		
<b>INF10.12-ASP02</b>	<b>Consume network MET information services</b>	<b>From:</b> <b>Applicability Area 1:</b> 01/01/2021	<b>By:</b> <b>Applicability Area 1:</b> 31/12/2025
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	All ANSPs that require network MET information will be able to access and consume these MET SWIM information services published by the MET provider(s). This may also include enhanced information services that are agreed under INF10.12-ASP01.		

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<b>Supporting material(s):</b>	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a>		
<b>Finalisation criteria:</b>	1 - The system(s) consumes the network manager MET information Service(s).		
<b>INF10.12-ASP03</b>	<b>Operational use</b>	<b>From:</b> <b>Applicability Area 1:</b> 01/01/2021	<b>By:</b> <b>Applicability Area 1:</b> 31/12/2025
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	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.		
<b>Supporting material(s):</b>	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a>		
<b>Finalisation criteria:</b>	1 - Information Exchanges are used for daily operations.		
<b>INF10.12-MET01</b>	<b>Determine and help define requirements for new network MET information services</b>	<b>From:</b> <b>Applicability Area 1:</b> 01/01/2021	<b>By:</b> <b>Applicability Area 1:</b> 31/12/2025
<b>Action by:</b>	<b>MET Providers</b>		
<b>Description &amp; purpose:</b>	MET provider(s) will collaborate with NM to jointly define requirements for new advanced MET service(s) to better support operations specific to safe and efficient NM operations.		
<b>Supporting material(s):</b>	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a>		
<b>Finalisation criteria:</b>	1 - The agreed requirements are documented.		
<b>INF10.12-MET02</b>	<b>Provide Network MET information services</b>	<b>From:</b> <b>Applicability Area 1:</b> 01/01/2021	<b>By:</b> <b>Applicability Area 1:</b> 31/12/2025
<b>Action by:</b>	<b>MET Providers</b>		
<b>Description &amp; purpose:</b>	All certified MET providers (including those operating in the airport, and En-Route domains) will have their information published and accessible as SWIM services (either directly or indirectly).		
<b>Supporting material(s):</b>	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a>		
<b>Finalisation criteria:</b>	1 - The network MET information Service is SWIM compliant and available in the SWIM Registry.		
<b>INF10.12-MET03</b>	<b>Provide enhanced network MET information services</b>	<b>From:</b> <b>Applicability Area 1:</b> 01/01/2021	<b>By:</b> <b>Applicability Area 1:</b> 31/12/2025
<b>Action by:</b>	<b>MET Providers</b>		
<b>Description &amp; purpose:</b>	Fulfilling the agreed requirements for advanced MET information support services concluded in INF10.12-MET01, these additional or supplementary network meteorological information services will be published and accessible as SWIM service(s).		
<b>Supporting material(s):</b>	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a>		
<b>Finalisation criteria:</b>	1 - The enhanced network MET information Service is SWIM compliant and available in the SWIM Registry.		
<b>INF10.12-NM01</b>	<b>Determine and help define requirements for new network MET information services</b>	<b>From:</b> <b>Applicability Area 1:</b> 01/01/2021	<b>By:</b> <b>Applicability Area 1:</b> 31/12/2025
<b>Action by:</b>	<b>NM</b>		
<b>Description &amp; purpose:</b>	The NM will collaborate with ANSP stakeholders, AUs and the MET provider(s) to jointly define requirements for new advanced MET service(s) to better support operations specific to NM.		
<b>Supporting material(s):</b>	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a>		
<b>Finalisation criteria:</b>	1 - The agreed requirements are documented by NM		
<b>INF10.12-NM02</b>	<b>Consume network MET information services</b>	<b>From:</b> <b>Applicability Area 1:</b> 01/01/2021	<b>By:</b> <b>Applicability Area 1:</b> 31/12/2025
<b>Action by:</b>	<b>NM</b>		

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<b>Description &amp; purpose:</b>	The NM will be able to access and consume the network MET SWIM information services published by the certified MET provider(s) in this domain. This may include enhanced information services that are agreed in INF10.12-NM01.		
<b>Supporting material(s):</b>	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a>		
<b>Finalisation criteria:</b>	1 - NM will be able to access and consume MET SWIM information services in the airport, approach, network and En-Route domains as required operationally. The system(s) consumes the NM Meteorological Information Service.		
<b>INF10.12-NM03</b>	<b>Operational use</b>	<b>From:</b> <b>Applicability Area 1:</b> 01/01/2021	<b>By:</b> <b>Applicability Area 1:</b> 31/12/2025
<b>Action by:</b>	<b>NM</b>		
<b>Description &amp; purpose:</b>	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.		
<b>Supporting material(s):</b>	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a>		
<b>Finalisation criteria:</b>	1 - Information Exchanges are used for daily operations.		

