

CP1		Active							EU	
INF10.11		Meteorological Information Exchange - En-Route and Approach Meteorological information service								
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 En-Route and Approach Meteorological information Service. The certified MET service provider for the En-route and approach ATC units will be those which are selected by the relevant competent authority and/or regional air navigation agreement. There may be more than one selected certified MET service provider. The certified MET service provider will be the aerodrome meteorological office, the MWO or WAFC, as defined in Annex V to (EU) 2017/373). The MET service provider(s) will liaise closely with the operational stakeholders in the approach and En-route domains, to determine and help define the needs and requirements for MET information support, specific to that area. This may (for example) focus on unique weather constraints such as fog, snow, convection, etc, or on particular operational constraints such as runway throughput, winter procedures, noise abatement procedures, free routing, etc. and their dependency on weather.

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 States			
Applicability Area 2		Azerbaijan, 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

References

European ATM Master Plan

Ol step -	[IS-0205]-Digital Integrated Briefing for pre-flight phase								
	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					
Ol 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		
Ol step -	[MET-0101]-Enhanced MET observations, nowcasts and forecasts provided by ATM-MET systems for planning and near term services								
	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

Essential Operational Changes

ATM Interconnected Network

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

En-Route
Network
Terminal Airspace

Stakeholder Lines of Action (SLoAs)

SloA ref.	Title	From	By
INF10.11-ASP01	Determine and help define requirements for new En-Route and/or approach MET information services	01/01/2021	31/12/2025
INF10.11-ASP02	Consume En-Route and approach MET information services	01/01/2021	31/12/2025
INF10.11-ASP03	Operational use	01/01/2021	31/12/2025
INF10.11-MET01	Determine and help define requirements for new En-Route and/or approach MET information services	01/01/2021	31/12/2025
INF10.11-MET02	Provide En-Route and Approach MET information services	01/01/2021	31/12/2025
INF10.11-MET03	Provide enhanced En-Route and approach MET information services	01/01/2021	31/12/2025
INF10.11-NM01	Determine and help define requirements for new En-Route and/or approach MET information services	01/01/2021	31/12/2025
INF10.11-NM02	Consume En-Route and approach MET information services	01/01/2021	31/12/2025
INF10.11-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

Expected Performance Benefits

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

Detailed SLoA Descriptions

INF10.11-ASP01	Determine and help define requirements for new En-Route and/or approach MET information services	From: Applicability Area 1: 01/01/2021	By: Applicability Area 1: 31/12/2025
Action by:	ANS Providers		
Description & purpose:	The ANSPs operating in the En-Route and approach domains will collaborate with each other, AUs and the MET provider(s) to jointly define requirements for new advanced MET service(s) to better support operations specific to that airspace.		
Supporting material(s):	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : https://www.sesardeploymentmanager.eu/publications/deployment-programme		
Finalisation criteria:	1 - The agreed requirements are documented.		
INF10.11-ASP02	Consume En-Route and approach MET information services	From: Applicability Area 1: 01/01/2021	By: Applicability Area 1: 31/12/2025

INF10.11	Meteorological Information Exchange - En-Route and Approach Meteorological information service		
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Action by:	ANS Providers		
Description & purpose:	All ANSPs that require En-Route and approach MET information will be able to access and consume these MET SWIM information services published by the certified MET provider(s). This may also include enhanced information services that are agreed locally under INF10.11-ASP01.		
Supporting material(s):	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : https://www.sesardeploymentmanager.eu/publications/deployment-programme		
Finalisation criteria:	1 - The system(s) consumes the En-Route and approach MET information Service(s).		
INF10.11-ASP03	Operational use	From: Applicability Area 1: 01/01/2021	By: Applicability Area 1: 31/12/2025
Action by:	ANS Providers		
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 2021, Deliverable D1.1.1 07/2021 Url : https://www.sesardeploymentmanager.eu/publications/deployment-programme		
Finalisation criteria:	1 - Information Exchanges are used for daily operations.		
INF10.11-MET01	Determine and help define requirements for new En-Route and/or approach MET information services	From: Applicability Area 1: 01/01/2021	By: Applicability Area 1: 31/12/2025
Action by:	MET Providers		
Description & purpose:	The MWO's and WAFC (or other certified MET provider in the En-Route and approach domains) will collaborate with applicable ANSP users to jointly define requirements for new advanced MET service(s) to better support operations specific to that airspace.		
Supporting material(s):	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : https://www.sesardeploymentmanager.eu/publications/deployment-programme		
Finalisation criteria:	1 - The agreed requirements are documented.		
INF10.11-MET02	Provide En-Route and Approach MET information services	From: Applicability Area 1: 01/01/2021	By: Applicability Area 1: 31/12/2025
Action by:	MET Providers		
Description & purpose:	All MWO's and WAFC (or other certified MET provider in the En-Route or approach domain) will have their information published and accessible as a SWIM service (either directly or indirectly).		
Supporting material(s):	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : https://www.sesardeploymentmanager.eu/publications/deployment-programme		
Finalisation criteria:	1 - The En-Route and approach MET information Service is SWIM compliant and available in the SWIM Registry		
INF10.11-MET03	Provide enhanced En-Route and approach MET information services	From: Applicability Area 1: 01/01/2021	By: Applicability Area 1: 31/12/2025
Action by:	MET Providers		
Description & purpose:	Fulfilling the agreed requirements for advanced MET information support services concluded in INF10.11-MET01, these additional or supplementary En-Route or approach meteorological information services will be published and accessible as a SWIM service.		
Supporting material(s):	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : https://www.sesardeploymentmanager.eu/publications/deployment-programme		
Finalisation criteria:	1 - The En-Route and approach MET information Service is SWIM compliant and available in the SWIM Registry.		
INF10.11-NM01	Determine and help define requirements for new En-Route and/or approach MET information services	From: Applicability Area 1: 01/01/2021	By: Applicability Area 1: 31/12/2025
Action by:	NM		
Description & purpose:	It is recommended that NM engage in any collaboration between the En-Route and approach users/stakeholders and the MET provider(s) and contribute to the definition of requirements for new advanced MET service(s) to better support operations specific to that airspace.		
Supporting material(s):	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : https://www.sesardeploymentmanager.eu/publications/deployment-programme		
Finalisation criteria:	1 - The agreed requirements are documented		

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INF10.11-NM02	Consume En-Route and approach MET information services	From: Applicability Area 1: 01/01/2021	By: Applicability Area 1: 31/12/2025
Action by:	NM		
Description & purpose:	The NM will be able to access and consume the En-Route and approach MET SWIM information services published by the certified MET provider(s) in these domains. This may include enhanced information services that are agreed locally.		
Supporting material(s):	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : https://www.sesardeploymentmanager.eu/publications/deployment-programme		
Finalisation criteria:	1 - The system(s) consumes the En-Route and approach MET information Service(s).		
INF10.11-NM03	Operational use	From: Applicability Area 1: 01/01/2021	By: Applicability Area 1: 31/12/2025
Action by:	NM		
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 2021, Deliverable D1.1.1 07/2021 Url : https://www.sesardeploymentmanager.eu/publications/deployment-programme		
Finalisation criteria:	1 - Information Exchanges are used for daily operations.		

