

PCP		Removed							ECAC+	
INF08.1		Information Exchanges using the SWIM Yellow TI Profile								
REG	ASP	MIL	APO	USE	INT	IND	NM	MET	AIS	USP

Subject matter and scope

SWIM comprises standards, infrastructure and governance enabling the management of information and its exchange between operational stakeholders via interoperable services.

Initial system wide information management (iSWIM) is the first element towards SWIM and supports the information exchange based on services that are in conformance with the applicable foundational SWIM specifications. These information services will be delivered over internet protocol (IP)-based networks supported by Common Infrastructure Components (i.e. SWIM Registry and Public Key Infrastructure (PKI)). The applicable foundational SWIM specifications are:

- EUROCONTROL Specification for SWIM Service Description
- EUROCONTROL Specification for SWIM Information Definition
- EUROCONTROL Specification for SWIM Technical Infrastructure (TI) Yellow Profile

This implementation objective is limited to the provision or consumption of information services allowing the information exchanges identified in the Annex of the PCP Regulation No 716/2014, and adhering to the foundational SWIM specification (Information services description, Information definition, Technical infrastructure - Yellow Profile). The information exchanges are in the areas of:

- Aeronautical information exchange;
- Meteorological information exchange;
- Cooperative network information exchange;
- Flight information exchange

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 (As specified in PCP Appendix, Para 5.2)			
Applicability Area 2			
Timescales:	From:	By:	Applicable to:
Initial operational capability	01/01/2018		Applicability Area 1
Full operational capability		01/01/2025	Applicability Area 1

References

European ATM Master Plan

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) No 716/2014 on the establishment of the Pilot Common Project
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Essential Operational Changes

- none -

SESAR Solution

#35 - MET Information Exchange, #46 - SWIM Yellow Profile

ICAO GANP - ASBUs

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- none -

Deployment Programme

- none -

European Plan for Aviation Safety

- none -

Operating Environments

Airport
En-Route
Network
Terminal Airspace

Stakeholder Lines of Action (SLoAs)

SLoA ref.	Title	From	By
INF08.1-ASP01	Implement Aeronautical information exchanges	01/01/2018	01/01/2025
INF08.1-ASP02	Implement Meteorological Information exchanges	01/01/2018	01/01/2025
INF08.1-ASP03	Implement Cooperative Network information exchanges	01/01/2018	01/01/2025
INF08.1-ASP04	Implement Flight Information exchanges	01/01/2018	01/01/2025
INF08.1-MIL01	Implement Aeronautical information exchanges	01/01/2018	01/01/2025
INF08.1-MIL02	Implement Meteorological Information exchanges	01/01/2018	01/01/2025
INF08.1-MIL03	Implement Cooperative Network information exchanges	01/01/2018	01/01/2025
INF08.1-MIL04	Implement Flight Information exchanges	01/01/2018	01/01/2025
INF08.1-APO01	Implement Aeronautical information exchanges	01/01/2018	01/01/2025
INF08.1-APO02	Implement Meteorological Information exchanges	01/01/2018	01/01/2025
INF08.1-APO03	Implement Cooperative Network information exchanges	01/01/2018	01/01/2025
INF08.1-APO04	Implement Flight Information exchanges	01/01/2018	01/01/2025
INF08.1-USE01	Implement Aeronautical information exchanges	01/01/2018	01/01/2025
INF08.1-USE02	Implement Meteorological Information exchanges	01/01/2018	01/01/2025
INF08.1-USE03	Implement Cooperative Network information exchanges	01/01/2018	01/01/2025
INF08.1-USE04	Implement Flight Information exchanges	01/01/2018	01/01/2025
INF08.1-NM01	Implement Aeronautical information exchanges	01/01/2018	01/01/2025
INF08.1-NM02	Implement Meteorological Information exchanges	01/01/2018	01/01/2025
INF08.1-NM03	Implement Cooperative Network information exchanges	01/01/2018	01/01/2025
INF08.1-NM04	Implement Flight Information exchanges	01/01/2018	01/01/2025

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

INF08.1-ASP01	Implement Aeronautical information exchanges	From:	By:
		Applicability Area 1: 01/01/2018	Applicability Area 1: 01/01/2025
Action by:	ANS Providers		

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Description & purpose:	The service providers shall exchange aeronautical information via services compliant with the EUROCONTROL SWIM Specifications, as described in Annex 5.1.3. of Commission Regulation (EU) 716/2014. The ANS providers might need to upgrade their infrastructure/systems in line with the services implemented.		
Supporting material(s):	EUROCONTROL - SPEC-168 - EUROCONTROL Specification for SWIM Service Description - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-169 - EUROCONTROL Specification for SWIM Information Definition - 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-170 - EUROCONTROL Specification for SWIM Technical Infrastructure (TI) Yellow Profile - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim		
ATM Master Plan relationship:	[SWIM-APS-01a]-Provision of G/G Aeronautical Information services [SWIM-APS-02a]-Consumption of Aeronautical Information services [SWIM-INFR-01a]-High Criticality SWIM Services infrastructure Support and Connectivity. [SWIM-INFR-05a]-General SWIM Services infrastructure Support and Connectivity. [SWIM-NET-01a]-SWIM Network Point of Presence [SWIM-SUPT-01a]-SWIM Supporting Registry Provisions [SWIM-SUPT-03a]-SWIM Supporting Security Provisions [SWIM-SUPT-05a]-SWIM Supporting IP Network Bridging Provisions		
Finalisation criteria:	1 - Aeronautical information exchanges are performed in conformance with the EUROCONTROL SWIM specifications.		
INF08.1-ASP02	Implement Meteorological Information exchanges	From: Applicability Area 1: 01/01/2018	By: Applicability Area 1: 01/01/2025
Action by:	ANS Providers		
Description & purpose:	The ANS service providers (including MET providers) shall exchange meteorological information via services compliant with the EUROCONTROL SWIM Specifications, as described in Annex 5.1.4. of Commission Regulation (EU) 716/2014. The ANS providers might need to upgrade their infrastructure/systems in line with the services implemented.		
Supporting material(s):	EUROCONTROL - SPEC-168 - EUROCONTROL Specification for SWIM Service Description - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-169 - EUROCONTROL Specification for SWIM Information Definition - 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-170 - EUROCONTROL Specification for SWIM Technical Infrastructure (TI) Yellow Profile - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim		
ATM Master Plan relationship:	[METEO-03]-Provision and monitoring of real-time airport weather information (PCP) [METEO-04b]-Generate and provide MET information services relevant for Airport and final approach related operations (PCP) [METEO-05b]-Generate and provide MET information relevant for TMA and En-route related operations (PCP) [METEO-06b]-Generate and provide MET information relevant for Network related operations (PCP) [METEO-08b]-All-weather remote sensing of high resolution 3D aerodrome wind field [SWIM-APS-06a]-Provision of Airport Ground Sensor Meteorological Information Services [SWIM-APS-07a]-Stakeholder systems consumption of G/G Meteorological Information services [SWIM-INFR-01a]-High Criticality SWIM Services infrastructure Support and Connectivity. [SWIM-INFR-05a]-General SWIM Services infrastructure Support and Connectivity. [SWIM-NET-01a]-SWIM Network Point of Presence [SWIM-SUPT-01a]-SWIM Supporting Registry Provisions [SWIM-SUPT-03a]-SWIM Supporting Security Provisions [SWIM-SUPT-05a]-SWIM Supporting IP Network Bridging Provisions		
Finalisation criteria:	1 - The exchange of meteorological information is performed in conformance with the EUROCONTROL SWIM specifications.		
INF08.1-ASP03	Implement Cooperative Network information exchanges	From: Applicability Area 1: 01/01/2018	By: Applicability Area 1: 01/01/2025
Action by:	ANS Providers		
Description & purpose:	The service providers shall exchange cooperative network information relevant to the air traffic flow and capacity management via services compliant with the EUROCONTROL SWIM Specifications, as described in Annex 5.1.5 of Commission Regulation (EU) 716/2014. The ANS providers might need to upgrade their infrastructure/systems in line with the services implemented.		

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Supporting material(s):	<p>EUROCONTROL - SPEC-168 - EUROCONTROL Specification for SWIM Service Description - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim</p> <p>EUROCONTROL - SPEC-169 - EUROCONTROL Specification for SWIM Information Definition - 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim</p> <p>EUROCONTROL - SPEC-170 - EUROCONTROL Specification for SWIM Technical Infrastructure (TI) Yellow Profile - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim</p>		
ATM Master Plan relationship:	<p>[AAMS-06b]-ASM support systems enhanced to exchange static data and airspace usage data with NM systems in AIXM format</p> <p>[SWIM-APS-04a]-Consumption of G/G ATFCM Information Services</p> <p>[SWIM-INFR-01a]-High Criticality SWIM Services infrastructure Support and Connectivity.</p> <p>[SWIM-INFR-05a]-General SWIM Services infrastructure Support and Connectivity.</p> <p>[SWIM-NET-01a]-SWIM Network Point of Presence</p> <p>[SWIM-SUPT-01a]-SWIM Supporting Registry Provisions</p> <p>[SWIM-SUPT-03a]-SWIM Supporting Security Provisions</p> <p>[SWIM-SUPT-05a]-SWIM Supporting IP Network Bridging Provisions</p>		
Finalisation criteria:	1 - The exchange of information relevant to air traffic flow and capacity management is performed in conformance with the EUROCONTROL SWIM specifications.		
INF08.1-ASP04	Implement Flight Information exchanges	From: Applicability Area 1: 01/01/2018	By: Applicability Area 1: 01/01/2025
Action by:	ANS Providers		
Description & purpose:	The service providers shall exchange flight information via services compliant with the EUROCONTROL SWIM Specifications, as described in Annex 5.1.6 of Commission Regulation (EU) 716/2014. The ANS providers might need to upgrade their infrastructure/systems in line with the services implemented.		
Supporting material(s):	<p>EUROCONTROL - SPEC-168 - EUROCONTROL Specification for SWIM Service Description - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim</p> <p>EUROCONTROL - SPEC-169 - EUROCONTROL Specification for SWIM Information Definition - 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim</p> <p>EUROCONTROL - SPEC-170 - EUROCONTROL Specification for SWIM Technical Infrastructure (TI) Yellow Profile - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim</p>		
ATM Master Plan relationship:	<p>[ER APP ATC 160]-ATC to ATC Flight Data Exchange Using The Flight Object</p> <p>[SWIM-APS-04a]-Consumption of G/G ATFCM Information Services</p> <p>[SWIM-INFR-01a]-High Criticality SWIM Services infrastructure Support and Connectivity.</p> <p>[SWIM-INFR-05a]-General SWIM Services infrastructure Support and Connectivity.</p> <p>[SWIM-NET-01a]-SWIM Network Point of Presence</p> <p>[SWIM-SUPT-01a]-SWIM Supporting Registry Provisions</p> <p>[SWIM-SUPT-03a]-SWIM Supporting Security Provisions</p> <p>[SWIM-SUPT-05a]-SWIM Supporting IP Network Bridging Provisions</p>		
Finalisation criteria:	1 - Flight information exchanges are performed in conformance with the EUROCONTROL SWIM specifications.		
INF08.1-MIL01	Implement Aeronautical information exchanges	From: Applicability Area 1: 01/01/2018	By: Applicability Area 1: 01/01/2025
Action by:	Military Authorities		
Description & purpose:	Military authorities shall exchange aeronautical information via services compliant with the EUROCONTROL SWIM Specifications, as described in Annex 5.1.3. of Commission Regulation (EU) 716/2014. The military authorities might need to upgrade their infrastructure/systems in line with the services implemented.		
Supporting material(s):	<p>EUROCONTROL - SPEC-168 - EUROCONTROL Specification for SWIM Service Description - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim</p> <p>EUROCONTROL - SPEC-169 - EUROCONTROL Specification for SWIM Information Definition - 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim</p> <p>EUROCONTROL - SPEC-170 - EUROCONTROL Specification for SWIM Technical Infrastructure (TI) Yellow Profile - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim</p>		

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ATM Master Plan relationship:	[MIL-0502]-Upgrade of military ground systems to allow bi-directional exchanges with non-military IP networks [SWIM-APS-01a]-Provision of G/G Aeronautical Information services [SWIM-APS-02a]-Consumption of Aeronautical Information services [SWIM-INFR-01a]-High Criticality SWIM Services infrastructure Support and Connectivity. [SWIM-INFR-05a]-General SWIM Services infrastructure Support and Connectivity. [SWIM-NET-01a]-SWIM Network Point of Presence [SWIM-SUPT-01a]-SWIM Supporting Registry Provisions [SWIM-SUPT-03a]-SWIM Supporting Security Provisions [SWIM-SUPT-05a]-SWIM Supporting IP Network Bridging Provisions		
Finalisation criteria:	1 - Aeronautical information exchanges are performed in conformance with the EUROCONTROL SWIM specifications.		
INF08.1-MIL02	Implement Meteorological Information exchanges	From: Applicability Area 1: 01/01/2018	By: Applicability Area 1: 01/01/2025
Action by:	Military Authorities		
Description & purpose:	Military authorities shall exchange of meteorological information via services compliant with the EUROCONTROL SWIM Specifications, as described in Annex 5.1.4. of Commission Regulation (EU) 716/2014. The military authorities might need to upgrade their infrastructure/systems in line with the services implemented.		
Supporting material(s):	EUROCONTROL - SPEC-168 - EUROCONTROL Specification for SWIM Service Description - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-169 - EUROCONTROL Specification for SWIM Information Definition - 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-170 - EUROCONTROL Specification for SWIM Technical Infrastructure (TI) Yellow Profile - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim		
ATM Master Plan relationship:	[MIL-0502]-Upgrade of military ground systems to allow bi-directional exchanges with non-military IP networks [SWIM-APS-07a]-Stakeholder systems consumption of G/G Meteorological Information services [SWIM-INFR-01a]-High Criticality SWIM Services infrastructure Support and Connectivity. [SWIM-INFR-05a]-General SWIM Services infrastructure Support and Connectivity. [SWIM-NET-01a]-SWIM Network Point of Presence [SWIM-SUPT-01a]-SWIM Supporting Registry Provisions [SWIM-SUPT-03a]-SWIM Supporting Security Provisions [SWIM-SUPT-05a]-SWIM Supporting IP Network Bridging Provisions		
Finalisation criteria:	1 - The exchange of meteorological information is performed in conformance with the EUROCONTROL SWIM specifications.		
INF08.1-MIL03	Implement Cooperative Network information exchanges	From: Applicability Area 1: 01/01/2018	By: Applicability Area 1: 01/01/2025
Action by:	Military Authorities		
Description & purpose:	Military authorities shall exchange cooperative network information relevant to the air traffic flow and capacity management via services compliant with the EUROCONTROL SWIM Specifications, as fully described in Annex 5.1.5 of Commission Regulation (EU) 716/2014. The military authorities might need to upgrade their infrastructure/systems in line with the services implemented.		
Supporting material(s):	EUROCONTROL - SPEC-168 - EUROCONTROL Specification for SWIM Service Description - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-169 - EUROCONTROL Specification for SWIM Information Definition - 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-170 - EUROCONTROL Specification for SWIM Technical Infrastructure (TI) Yellow Profile - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim		
ATM Master Plan relationship:	[MIL-0502]-Upgrade of military ground systems to allow bi-directional exchanges with non-military IP networks [SWIM-APS-04a]-Consumption of G/G ATFCM Information Services [SWIM-INFR-01a]-High Criticality SWIM Services infrastructure Support and Connectivity. [SWIM-INFR-05a]-General SWIM Services infrastructure Support and Connectivity. [SWIM-NET-01a]-SWIM Network Point of Presence [SWIM-SUPT-01a]-SWIM Supporting Registry Provisions [SWIM-SUPT-03a]-SWIM Supporting Security Provisions [SWIM-SUPT-05a]-SWIM Supporting IP Network Bridging Provisions		

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Finalisation criteria:	1 - The exchange of information relevant to air traffic flow and capacity management is performed in conformance with the EUROCONTROL SWIM specifications.		
INF08.1-MIL04	Implement Flight Information exchanges	From: Applicability Area 1: 01/01/2018	By: Applicability Area 1: 01/01/2025
Action by:	Military Authorities		
Description & purpose:	Military authorities shall exchange flight information via services compliant with the EUROCONTROL SWIM Specifications, as described in Annex 5.1.6 of Commission Regulation (EU) 716/2014. The military authorities might need to upgrade their infrastructure/systems in line with the services implemented.		
Supporting material(s):	EUROCONTROL - SPEC-168 - EUROCONTROL Specification for SWIM Service Description - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-169 - EUROCONTROL Specification for SWIM Information Definition - 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-170 - EUROCONTROL Specification for SWIM Technical Infrastructure (TI) Yellow Profile - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim		
ATM Master Plan relationship:	[ER APP ATC 160]-ATC to ATC Flight Data Exchange Using The Flight Object [MIL-0502]-Upgrade of military ground systems to allow bi-directional exchanges with non-military IP networks [SWIM-APS-04a]-Consumption of G/G ATFCM Information Services [SWIM-INFR-01a]-High Criticality SWIM Services infrastructure Support and Connectivity. [SWIM-INFR-05a]-General SWIM Services infrastructure Support and Connectivity. [SWIM-NET-01a]-SWIM Network Point of Presence [SWIM-SUPT-01a]-SWIM Supporting Registry Provisions [SWIM-SUPT-03a]-SWIM Supporting Security Provisions [SWIM-SUPT-05a]-SWIM Supporting IP Network Bridging Provisions		
Finalisation criteria:	1 - The exchange of flight information is performed in conformance with the EUROCONTROL SWIM specifications.		
INF08.1-APO01	Implement Aeronautical information exchanges	From: Applicability Area 1: 01/01/2018	By: Applicability Area 1: 01/01/2025
Action by:	Airport Operators		
Description & purpose:	Airport operators shall exchange aeronautical information via services compliant with the EUROCONTROL SWIM Specifications, as described in Annex 5.1.3. of Commission Regulation (EU) 716/2014. The airport operators might need to upgrade their infrastructure/systems in line with the services implemented.		
Supporting material(s):	EUROCONTROL - SPEC-168 - EUROCONTROL Specification for SWIM Service Description - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-169 - EUROCONTROL Specification for SWIM Information Definition - 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-170 - EUROCONTROL Specification for SWIM Technical Infrastructure (TI) Yellow Profile - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim		
ATM Master Plan relationship:	[SWIM-APS-01a]-Provision of G/G Aeronautical Information services [SWIM-APS-02a]-Consumption of Aeronautical Information services [SWIM-INFR-05a]-General SWIM Services infrastructure Support and Connectivity. [SWIM-NET-01a]-SWIM Network Point of Presence [SWIM-SUPT-05a]-SWIM Supporting IP Network Bridging Provisions		
Finalisation criteria:	1 - Aeronautical information exchanges are performed in conformance with the EUROCONTROL SWIM specifications.		
INF08.1-APO02	Implement Meteorological Information exchanges	From: Applicability Area 1: 01/01/2018	By: Applicability Area 1: 01/01/2025
Action by:	Airport Operators		
Description & purpose:	Airport operators shall exchange meteorological information via services compliant with the EUROCONTROL SWIM Specifications, as described in Annex 5.1.4. of Commission Regulation (EU) 716/2014. The airport operators might need to upgrade their infrastructure/systems in line with the services implemented.		

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Supporting material(s):	EUROCONTROL - SPEC-168 - EUROCONTROL Specification for SWIM Service Description - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-169 - EUROCONTROL Specification for SWIM Information Definition - 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-170 - EUROCONTROL Specification for SWIM Technical Infrastructure (TI) Yellow Profile - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim		
ATM Master Plan relationship:	[METEO-03]-Provision and monitoring of real-time airport weather information (PCP) [METEO-04b]-Generate and provide MET information services relevant for Airport and final approach related operations (PCP) [METEO-05b]-Generate and provide MET information relevant for TMA and En-route related operations (PCP) [METEO-06b]-Generate and provide MET information relevant for Network related operations (PCP) [METEO-08b]-All-weather remote sensing of high resolution 3D aerodrome wind field [SWIM-APS-06a]-Provision of Airport Ground Sensor Meteorological Information Services [SWIM-APS-07a]-Stakeholder systems consumption of G/G Meteorological Information services [SWIM-INFR-05a]-General SWIM Services infrastructure Support and Connectivity. [SWIM-NET-01a]-SWIM Network Point of Presence [SWIM-SUPT-05a]-SWIM Supporting IP Network Bridging Provisions		
Finalisation criteria:	1 - The exchange of meteorological information is performed in conformance with the EUROCONTROL SWIM specifications.		
INF08.1-APO03	Implement Cooperative Network information exchanges	From: Applicability Area 1: 01/01/2018	By: Applicability Area 1: 01/01/2025
Action by:	Airport Operators		
Description & purpose:	Airport operators shall exchange cooperative network information relevant to the air traffic flow and capacity management via services compliant with the EUROCONTROL SWIM Specifications, as described in Annex 5.1.5 of Commission Regulation (EU) 716/2014. The airport operators might need to upgrade their infrastructure/systems in line with the services implemented.		
Supporting material(s):	EUROCONTROL - SPEC-168 - EUROCONTROL Specification for SWIM Service Description - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-169 - EUROCONTROL Specification for SWIM Information Definition - 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-170 - EUROCONTROL Specification for SWIM Technical Infrastructure (TI) Yellow Profile - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim		
ATM Master Plan relationship:	[SWIM-APS-04a]-Consumption of G/G ATFCM Information Services [SWIM-INFR-05a]-General SWIM Services infrastructure Support and Connectivity. [SWIM-NET-01a]-SWIM Network Point of Presence [SWIM-SUPT-05a]-SWIM Supporting IP Network Bridging Provisions		
Finalisation criteria:	1 - The exchange of information relevant to air traffic flow and capacity management is performed in conformance with the EUROCONTROL SWIM specifications.		
INF08.1-APO04	Implement Flight Information exchanges	From: Applicability Area 1: 01/01/2018	By: Applicability Area 1: 01/01/2025
Action by:	Airport Operators		
Description & purpose:	The airport operators shall exchange flight information via services compliant with the EUROCONTROL SWIM Specifications, as described in Annex 5.1.6 of Commission Regulation (EU) 716/2014. The airport operators might need to upgrade their infrastructure/systems in line with the services implemented.		
Supporting material(s):	EUROCONTROL - SPEC-168 - EUROCONTROL Specification for SWIM Service Description - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-169 - EUROCONTROL Specification for SWIM Information Definition - 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-170 - EUROCONTROL Specification for SWIM Technical Infrastructure (TI) Yellow Profile - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim		
ATM Master Plan relationship:	[SWIM-APS-04a]-Consumption of G/G ATFCM Information Services [SWIM-INFR-05a]-General SWIM Services infrastructure Support and Connectivity. [SWIM-NET-01a]-SWIM Network Point of Presence [SWIM-SUPT-05a]-SWIM Supporting IP Network Bridging Provisions		

INF08.1	Information Exchanges using the SWIM Yellow TI Profile
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Finalisation criteria:	1 - The exchange of flight information is performed in conformance with the EUROCONTROL SWIM specifications.		
INF08.1-USE01	Implement Aeronautical information exchanges	From:	By:
		Applicability Area 1: 01/01/2018	Applicability Area 1: 01/01/2025
Action by:	Airspace Users		
Description & purpose:	Airspace users shall exchange aeronautical information via services compliant with the EUROCONTROL SWIM Specifications, as described in Annex 5.1.3. of Commission Regulation (EU) 716/2014. The airspace users might need to upgrade their infrastructure/systems in line with the services implemented.		
Supporting material(s):	EUROCONTROL - SPEC-168 - EUROCONTROL Specification for SWIM Service Description - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-169 - EUROCONTROL Specification for SWIM Information Definition - 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-170 - EUROCONTROL Specification for SWIM Technical Infrastructure (TI) Yellow Profile - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim		
ATM Master Plan relationship:	[SWIM-APS-02a]-Consumption of Aeronautical Information services [SWIM-INFR-05a]-General SWIM Services infrastructure Support and Connectivity. [SWIM-NET-01a]-SWIM Network Point of Presence [SWIM-SUPT-05a]-SWIM Supporting IP Network Bridging Provisions		
Finalisation criteria:	1 - Aeronautical information exchanges are performed in conformance with the EUROCONTROL SWIM specifications.		
INF08.1-USE02	Implement Meteorological Information exchanges	From:	By:
		Applicability Area 1: 01/01/2018	Applicability Area 1: 01/01/2025
Action by:	Airspace Users		
Description & purpose:	Airspace users shall exchange of meteorological information via services compliant with the EUROCONTROL SWIM Specifications, as described in Annex 5.1.4. of Commission Regulation (EU) 716/2014. The airspace users might need to upgrade their infrastructure/systems in line with the services implemented.		
Supporting material(s):	EUROCONTROL - SPEC-168 - EUROCONTROL Specification for SWIM Service Description - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-169 - EUROCONTROL Specification for SWIM Information Definition - 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-170 - EUROCONTROL Specification for SWIM Technical Infrastructure (TI) Yellow Profile - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim		
ATM Master Plan relationship:	[METEO-03]-Provision and monitoring of real-time airport weather information (PCP) [METEO-04b]-Generate and provide MET information services relevant for Airport and final approach related operations (PCP) [METEO-05b]-Generate and provide MET information relevant for TMA and En-route related operations (PCP) [SWIM-APS-07a]-Stakeholder systems consumption of G/G Meteorological Information services [SWIM-INFR-05a]-General SWIM Services infrastructure Support and Connectivity. [SWIM-NET-01a]-SWIM Network Point of Presence [SWIM-SUPT-05a]-SWIM Supporting IP Network Bridging Provisions		
Finalisation criteria:	1 - The exchange of meteorological information is performed in conformance with the EUROCONTROL SWIM specifications.		
INF08.1-USE03	Implement Cooperative Network information exchanges	From:	By:
		Applicability Area 1: 01/01/2018	Applicability Area 1: 01/01/2025
Action by:	Airspace Users		
Description & purpose:	Airspace users shall exchange cooperative network information relevant to the air traffic flow and capacity management via services compliant with the EUROCONTROL SWIM Specifications, as described in Annex 5.1.5 of Commission Regulation (EU) 716/2014. The airspace users might need to upgrade their infrastructure/systems in line with the services implemented.		

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Supporting material(s):	EUROCONTROL - SPEC-168 - EUROCONTROL Specification for SWIM Service Description - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-169 - EUROCONTROL Specification for SWIM Information Definition - 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-170 - EUROCONTROL Specification for SWIM Technical Infrastructure (TI) Yellow Profile - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim		
ATM Master Plan relationship:	[SWIM-APS-04a]-Consumption of G/G ATFCM Information Services [SWIM-INFR-05a]-General SWIM Services infrastructure Support and Connectivity. [SWIM-NET-01a]-SWIM Network Point of Presence [SWIM-SUPT-05a]-SWIM Supporting IP Network Bridging Provisions		
Finalisation criteria:	1 - The exchange of information relevant to air traffic flow and capacity management is performed in conformance with the EUROCONTROL SWIM specifications.		
INF08.1-USE04	Implement Flight Information exchanges	From: Applicability Area 1: 01/01/2018	By: Applicability Area 1: 01/01/2025
Action by:	Airspace Users		
Description & purpose:	Airspace users shall exchange flight information via services compliant with the EUROCONTROL SWIM Specifications, as described in Annex 5.1.6 of Commission Regulation (EU) 716/2014. The airspace users might need to upgrade their infrastructure/systems in line with the services implemented.		
Supporting material(s):	EUROCONTROL - SPEC-168 - EUROCONTROL Specification for SWIM Service Description - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-169 - EUROCONTROL Specification for SWIM Information Definition - 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-170 - EUROCONTROL Specification for SWIM Technical Infrastructure (TI) Yellow Profile - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim		
ATM Master Plan relationship:	[SWIM-APS-04a]-Consumption of G/G ATFCM Information Services [SWIM-INFR-05a]-General SWIM Services infrastructure Support and Connectivity. [SWIM-NET-01a]-SWIM Network Point of Presence [SWIM-SUPT-05a]-SWIM Supporting IP Network Bridging Provisions		
Finalisation criteria:	1 - The exchange of flight information is performed in conformance with the EUROCONTROL SWIM specifications.		
INF08.1-NM01	Implement Aeronautical information exchanges	From: Applicability Area 1: 01/01/2018	By: Applicability Area 1: 01/01/2025
Action by:	NM		
Description & purpose:	The Network Manager shall exchange aeronautical via services compliant with the EUROCONTROL SWIM Specifications, as described in Annex 5.1.3. of Commission Regulation (EU) 716/2014. The NM might need to upgrade their infrastructure/systems in line with the services implemented.		
Supporting material(s):	EUROCONTROL - SPEC-168 - EUROCONTROL Specification for SWIM Service Description - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-169 - EUROCONTROL Specification for SWIM Information Definition - 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-170 - EUROCONTROL Specification for SWIM Technical Infrastructure (TI) Yellow Profile - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim		
ATM Master Plan relationship:	[SWIM-APS-01a]-Provision of G/G Aeronautical Information services [SWIM-APS-02a]-Consumption of Aeronautical Information services [SWIM-INFR-01a]-High Criticality SWIM Services infrastructure Support and Connectivity. [SWIM-NET-01a]-SWIM Network Point of Presence [SWIM-SUPT-01a]-SWIM Supporting Registry Provisions [SWIM-SUPT-03a]-SWIM Supporting Security Provisions [SWIM-SUPT-05a]-SWIM Supporting IP Network Bridging Provisions		
Finalisation criteria:	1 - Aeronautical information exchanges are performed in conformance with the EUROCONTROL SWIM specifications.		
INF08.1-NM02	Implement Meteorological Information exchanges	From: Applicability Area 1: 01/01/2018	By: Applicability Area 1: 01/01/2025

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Action by:	NM		
Description & purpose:	The Network Manager shall exchange meteorological information via services compliant with the EUROCONTROL SWIM Specifications, as described in Annex 5.1.4. of Commission Regulation (EU) 716/2014. The NM might need to upgrade their infrastructure/systems in line with the services implemented.		
Supporting material(s):	EUROCONTROL - SPEC-168 - EUROCONTROL Specification for SWIM Service Description - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-169 - EUROCONTROL Specification for SWIM Information Definition - 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-170 - EUROCONTROL Specification for SWIM Technical Infrastructure (TI) Yellow Profile - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim		
ATM Master Plan relationship:	[METEO-06b]-Generate and provide MET information relevant for Network related operations (PCP) [SWIM-APS-07a]-Stakeholder systems consumption of G/G Meteorological Information services [SWIM-INFR-01a]-High Criticality SWIM Services infrastructure Support and Connectivity. [SWIM-NET-01a]-SWIM Network Point of Presence [SWIM-SUPT-01a]-SWIM Supporting Registry Provisions [SWIM-SUPT-03a]-SWIM Supporting Security Provisions [SWIM-SUPT-05a]-SWIM Supporting IP Network Bridging Provisions		
Finalisation criteria:	1 - The exchange of meteorological information is performed in conformance with the EUROCONTROL SWIM specifications.		
INF08.1-NM03	Implement Cooperative Network information exchanges	From: Applicability Area 1: 01/01/2018	By: Applicability Area 1: 01/01/2025
Action by:	NM		
Description & purpose:	The Network Manager shall exchange cooperative network information relevant to the air traffic flow and capacity management via services compliant with the EUROCONTROL SWIM Specifications, as described in Annex 5.1.5 of Commission Regulation (EU) 716/2014. The NM might need to upgrade their infrastructure/systems in line with the services implemented.		
Supporting material(s):	EUROCONTROL - SPEC-168 - EUROCONTROL Specification for SWIM Service Description - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-169 - EUROCONTROL Specification for SWIM Information Definition - 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-170 - EUROCONTROL Specification for SWIM Technical Infrastructure (TI) Yellow Profile - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim		
ATM Master Plan relationship:	[SWIM-APS-03a]-Provision of G/G ATFCM Information Services [SWIM-APS-04a]-Consumption of G/G ATFCM Information Services [SWIM-INFR-01a]-High Criticality SWIM Services infrastructure Support and Connectivity. [SWIM-NET-01a]-SWIM Network Point of Presence [SWIM-SUPT-01a]-SWIM Supporting Registry Provisions [SWIM-SUPT-03a]-SWIM Supporting Security Provisions [SWIM-SUPT-05a]-SWIM Supporting IP Network Bridging Provisions		
Finalisation criteria:	1 - The exchange of information relevant to air traffic flow and capacity management is performed in conformance with the EUROCONTROL SWIM specifications.		
INF08.1-NM04	Implement Flight Information exchanges	From: Applicability Area 1: 01/01/2018	By: Applicability Area 1: 01/01/2025
Action by:	NM		
Description & purpose:	The Network Manager shall exchange flight information via services compliant with the EUROCONTROL SWIM Specifications, as described in Annex 5.1.6 of Commission Regulation (EU) 716/2014. The NM might need to upgrade their infrastructure/systems in line with the services implemented.		
Supporting material(s):	EUROCONTROL - SPEC-168 - EUROCONTROL Specification for SWIM Service Description - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-169 - EUROCONTROL Specification for SWIM Information Definition - 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim EUROCONTROL - SPEC-170 - EUROCONTROL Specification for SWIM Technical Infrastructure (TI) Yellow Profile - Edition 1.0 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specifications-system-wide-information-management-swim		

INF08.1	Information Exchanges using the SWIM Yellow TI Profile
ATM Master Plan relationship:	[ER APP ATC 160]-ATC to ATC Flight Data Exchange Using The Flight Object [SWIM-APS-03a]-Provision of G/G ATFCM Information Services [SWIM-APS-04a]-Consumption of G/G ATFCM Information Services [SWIM-INFR-01a]-High Criticality SWIM Services infrastructure Support and Connectivity. [SWIM-NET-01a]-SWIM Network Point of Presence [SWIM-SUPT-01a]-SWIM Supporting Registry Provisions [SWIM-SUPT-03a]-SWIM Supporting Security Provisions [SWIM-SUPT-05a]-SWIM Supporting IP Network Bridging Provisions
Finalisation criteria:	1 - The exchange of flight information is performed in conformance with the EUROCONTROL SWIM specifications.

