

PCP		Removed							EU+	
INF08.2		Information Exchanges using the SWIM Blue TI Profile								
REG	ASP	MIL	APO	USE	INT	IND	NM	MET	AIS	USP

Subject matter and scope

System wide information management (SWIM) concerns the development of services for information exchange. 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) supports information exchanges that are built on standards and delivered through an internet protocol (IP)-based network by SWIM enabled systems. It consists of:

- Common infrastructure components;
- SWIM technical infrastructure and profiles;
- Aeronautical information exchange;
- Meteorological information exchange;
- Cooperative network information exchange;
- Flight information exchange.

The scope of this objective is addressing the exchange of flight information related to the flight object using the blue SWIM Technical Infrastructure Profile, as defined in the Annex 5.1.6 of the PCP Regulation No 716/2014.

The objective assumes the availability of SWIM Governance (as addressed by Family 5.1.3 of Deployment Programme 2016) and is without prejudice to the evolution and establishment of this Governance as addressed in the Action Plan currently under development. This evolution may imply changes to the objective in the subsequent editions of the Plan.

NOTE: This is an "Initial" objective to provide advance notice to stakeholders. Some aspects of the objective require further validation.

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	From:	By:	Applicable to:
Initial operational capability	01/06/2018		Applicability Area
Full operational capability		01/01/2027	Applicability Area

References

European ATM Master Plan

OI step -	[CM-0201-A]-Automated Assistance to Controller for Seamless Coordination, Transfer and Dialogue through improved trajectory data sharing						
Enablers -	ER APP ATC 160	SWIM-APS- 05a	SWIM-INFR- 01a	SWIM-NET- 01a			
OI 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	

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
---------	----------	--------------------------------------	-----------------	---	----------	--

Applicable legislation

Regulation (EU) No 716/2014 on the establishment of the Pilot Common Project

Essential Operational Changes

- none -

SESAR Solution

#28 - Automated Assistance to Controller for Seamless Coordination, Transfer and Dialogue through improved trajectory data sharing, #46 - SWIM Yellow Profile

INF08.2	Information Exchanges using the SWIM Blue TI Profile
----------------	---

ICAO GANP - ASBUs

SWIM-B3/1	Air/Ground SWIM for safety critical information
TBO-B3/1	Network based on-demand synchronization of trajectory based operations

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
INF08.2-ASP01	Implement the appropriate infrastructure components in accordance with the SWIM TI Blue Profile	01/06/2018	01/01/2027
INF08.2-ASP02	Implement Flight information exchanges	01/06/2018	01/01/2027
INF08.2-NM01	Implement the appropriate infrastructure components in accordance with the SWIM TI Blue Profile	01/06/2018	01/01/2027
INF08.2-NM02	Implement Flight information exchanges	01/06/2018	01/01/2027

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

INF08.2-ASP01	Implement the appropriate infrastructure components in accordance with the SWIM TI Blue Profile	From: 01/06/2018	By: 01/01/2027
Action by:	ANS Providers		
Description & purpose:	Implement the SWIM TI Blue Profile local component in a way that: - Deals with the necessary Internet Protocol compliance; - Is consistent with the provision and/or consumption as appropriate of the related flight information exchange services; - Complies with security requirements established for the purpose of the implementation of such services.		
ATM Master Plan relationship:	[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 - Systems have been adapted so as the local infrastructure component: - Is compliant with the required Internet Protocol standard; - Allows the provision and consumption of SWIM Blue Profile flight information exchange services, - Responds to the security requirements set up for the provision of the SWIM Blue Profile exchange services.		
INF08.2-ASP02	Implement Flight information exchanges	From: 01/06/2018	By: 01/01/2027

INF08.2	Information Exchanges using the SWIM Blue TI Profile
----------------	---

Action by:	ANS Providers		
Description & purpose:	The service providers shall implement services which support the exchange of flight information related to the Flight Object using the Blue SWIM TI profile. These services shall allow various operations and as well the sharing of the Flight Object, as fully described in Annex 5.1.6 of Commission Regulation (EU) 716/2014.		
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		
ATM Master Plan relationship:	[ER APP ATC 160]-ATC to ATC Flight Data Exchange Using The Flight Object [SWIM-APS-05a]-Provision and Consumption of Flight Object Sharing services		
Finalisation criteria:	1 - Services are provided in order to allow the manipulation of the Flight Object information as required by the Regulation (EU) 716/2014.		
INF08.2-NM01	Implement the appropriate infrastructure components in accordance with the SWIM TI Blue Profile	From: 01/06/2018	By: 01/01/2027
Action by:	NM		
Description & purpose:	Implement the SWIM TI Blue Profile local component in a way that: - Deals with the necessary Internet Protocol compliance; - Is consistent with the provision and/or consumption as appropriate of the related flight information exchange services; - Complies with security requirements established for the purpose of the implementation of such services.		
ATM Master Plan relationship:	[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 - Systems have been adapted so as the local infrastructure component: - Is compliant with the required Internet Protocol standard; - Allows the provision and consumption of SWIM Blue Profile flight information exchange services, - Responds to the security requirements set up for the provision of the SWIM Blue Profile exchange services.		
INF08.2-NM02	Implement Flight information exchanges	From: 01/06/2018	By: 01/01/2027
Action by:	NM		
Description & purpose:	The Network Manager shall implement services which support the exchange of flight information related to the Flight Object using the Blue SWIM TI profile. These services shall allow various operations and as well the sharing of the Flight Object, as fully described in Annex 5.1.6 of Commission Regulation (EU) 716/2014.		
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		
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-05a]-Provision and Consumption of Flight Object Sharing services		
Finalisation criteria:	1 - Services are provided in order to allow the manipulation of the Flight Object information as required by the Regulation (EU) 716/2014.		

