



SWIM-INFR-05a — General SWIM Services infrastructure Support and Connectivity.

Provision of the additional functionality needed by the individual Stakeholder to support their SWIM applications provision/consumption of General SWIM Service.

This enabler addresses the need for each stakeholder to provide the necessary additional functionality to address the messaging protocol, security, resilience, and other SWIM Profile related aspects for the provision/consumption/exchange of these general (i.e. not High Criticality) types of SWIM Services with other stakeholders, by means of Internet Protocol (IP) connectivity via in-common IP network(s).

Category SYSTEM

Stakeholder **Air Navigation Service Provider**

Civil

- Civil ATS Aerodrome Service Provider
- Civil ATS Approach Service Provider
- Civil ATS En-Route Service Provider
- Civil SWIM Service Provider

Military

- Military ATS Aerodrome Service Provider
- Military ATS Approach Service Provider
- Military ATS En-Route Service Provider
- Military SWIM Service Provider

Airport Operator

Civil

- Civil APT operator

Military

- Military APT operator

Airspace User

Civil

- Civil Flight Operations Centre

Military

- Military Wing Operations Centre

Network Manager

V3 End 30-04-2016

V4 Start 31-12-2016

V5 Start 31-12-2018

V4 End 31-12-2018

V5 End 31-12-2020

Air Navigation Service Provider: 31-12-2020

Civil

- Civil ATS Aerodrome Service Provider: 31-12-2020
- Civil ATS Approach Service Provider: 31-12-2020
- Civil ATS En-Route Service Provider: 31-12-2020
- Civil SWIM Service Provider: 31-12-2020

Military

- Military ATS Aerodrome Service Provider: 31-12-2020
- Military ATS Approach Service Provider: 31-12-2020
- Military ATS En-Route Service Provider: 31-12-2020
- Military SWIM Service Provider: 31-12-2020

Airport Operator: 31-12-2020

Civil

- Civil APT operator: 31-12-2020

Military

- Military APT operator: 31-12-2020

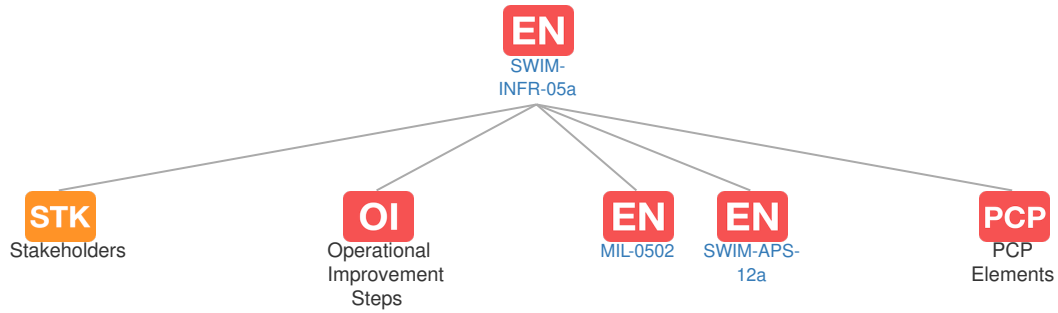
Airspace User: 31-12-2020

Civil

- Civil Flight Operations Centre: 31-

Context

Related Elements



OI Operational Improvement Steps

Code	Benefits start date (IOC) - Full benefit date (FOC)																										
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
SWIM-INFR-05a				▲	V4	V5	IOC - FOC																				
🔒 AO-0801-A																											
🔒 AO-0803																											
🔒 AOM-0202-A																											
🔒 AOM-0206-A																											
🔒 AOM-0304-A																											
🔒 AUO-0203																											
🔒 CM-0103-A																											
🔒 DCB-0103-A																											
🔒 DCB-0208																											
🔒 DCB-0308																											
🔒 IS-0205																											
🔒 IS-0901-A																											
➔ AOM-0500																											
➔ AOM-0501																											
➔ CM-0102-A																											























EN Dependent Enablers

Relationship	Code	Title	Related Elements
Supporting	MIL-0502	Upgrade of military ground systems to allow bi-directional exchanges with non-military IP networks	STK OI EN DS PCP
Deployed with	SWIM-APS-12a	Provision and Consumption of general information for air traffic management using SWIM	STK OI EN S

PCP PCP Elements

Code	Title	Related Elements
S-AF3.1	Airspace Management and Advanced Flexible Use of Airspace	SOL OI EN OBJ ICAO
S-AF4.1	Enhanced Short Term ATFCM Measures	SOL OI EN OBJ ICAO
S-AF4.2	Collaborative NOP	SOL OI EN OBJ ICAO
S-AF4.3	CTOT to TTA for ATFCM	SOL OI EN OBJ ICAO
S-AF4.4	Automated Support for Traffic Complexity Assessment	SOL OI EN OBJ ICAO
S-AF5.1	Common infrastructure components	SOL OI EN OBJ ICAO
S-AF5.2	SWIM Technical Infrastructure and Profiles	SOL OI EN OBJ ICAO
S-AF5.3	Aeronautical information exchange	SOL OI EN OBJ ICAO
S-AF5.4	Meteorological information exchange	SOL OI EN OBJ ICAO
S-AF5.5	Cooperative network information exchange	SOL OI EN OBJ ICAO
S-AF5.6	Flight information exchange	SOL OI EN OBJ ICAO

STK Stakeholders

Code	Title	Related Elements
ANSP	Air Navigation Service Provider	EN
ANSP-CIV-AERO	Civil ATS Aerodrome Service Provider	EN  
ANSP-CIV-APP	Civil ATS Approach Service Provider	EN  
ANSP-CIV-ER	Civil ATS En-Route Service Provider	EN  
ANSP-CIV-SWIM	Civil SWIM Service Provider	EN  
ANSP-MIL-AERO	Military ATS Aerodrome Service Provider	EN  
ANSP-MIL-APP	Military ATS Approach Service Provider	EN
ANSP-MIL-ER	Military ATS En-Route Service Provider	EN  
ANSP-MIL-SWIM	Military SWIM Service Provider	EN  
AO	Airport Operator	EN
AP-OPR-CIV	Civil APT operator	EN  
AP-OPR-MIL	Military APT operator	EN  
AU	Airspace User	EN
AU-CIV-FOC	Civil Flight Operations Centre	EN
AU-MIL-W	Military Wing Operations Centre	EN  
NM	Network Manager	EN
NET-MAN	Network Manager	EN  

 Standards: No associated data

 Implementation Objectives: No associated data

Stakeholder Lines of Action (SLoAs): No associated data

 SESAR Workpackages: No associated data