

<b>Deployment Scenario Title</b>	Collaborative airport (airport operations plan - network operations plan, phase 2)
<b>Deployment Scenario Description</b>	Collaborative airport (airport operations plan (AOP) phase 2): this deployment scenario is supported by a solution making it possible to interface landside with the ATM network. In this scenario, airport operations planning, monitoring, management and post-operations analysis tools and processes are built into the AOP and the airport collaborative decision-making process for normal, adverse and exceptional operating conditions. TTA is derived from the AOP and used by the NM to balance arrival demand and capacity, thus facilitating arrival management processes during the en-route phase. These processes are fully compatible with the NOP and SWIM-based services.
<b>Essential Operational Change</b>	ATM Interconnected Network
<b>Maturity</b>	In deployment phase: Key SESAR Solution

Applicable Operating Environment			
Airport	Terminal Airspace	En-Route	Network

Timeline																						
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	
							Deployment															
									Benefit													

Performance Contribution of the DS				
Capacity	Safety	Environment	Cost-efficiency	Operational efficiency

Stakeholders affected (at least one enabler to be deployed)						
ANSP		AO		AU		Network Manager
Civil	Military	Civil	Military	Civil	Military	
TWR, APP, ENR, CNS, SWIM, AIS, MET	TWR, APP, ENR, CNS, AIS, MET, SWIM	APT Operator	APT Operator	Scheduled, BA Fixed, GA, FOC	Transport, Light, WOC	Network Manager

SESAR Solutions			
Solution Code	Solution Title	Solution Description	Related Elements
#21	Airport Operations Plan and AOP-NOP Seamless Integration	Airport Operations Plan (AOP) and Integration of airports into ATM (AOP-NOP Integration) through...	<div style="display: flex; gap: 5px;"> <span style="background-color: #e74c3c; padding: 2px;">SOL</span> <span style="background-color: #e74c3c; padding: 2px;">OI</span> <span style="background-color: #e74c3c; padding: 2px;">OBJ</span> <span style="background-color: #e74c3c; padding: 2px;">DS</span> <span style="background-color: #27ae60; padding: 2px;">EOC</span> </div> <div style="display: flex; gap: 5px; margin-top: 5px;"> <span style="background-color: #e74c3c; padding: 2px;">PCP</span> <span style="background-color: #34495e; padding: 2px;">ICAO</span> </div>

Operational Improvement Steps			
OI Step Code	OI Step Title	OI Step Description	Related Elements
AO-0801-A	Collaborative Airport Planning Interface	Maintenance of the evolving content of the Airport Operations Plan (AOP) including: (1) an...	SOL OI EN OBJ DS PCP ICAO A-A
AO-0802-A	A-CDM process enhanced through integration of landside (passenger only) process outputs	Enhancement of the airside process with the inclusion of landside (passenger flow only) process...	SOL OI EN DS ICAO
AO-0803	Integration of Airports into ATM through Monitoring of Airport Transit View (Extension of Performance Monitoring building on A-CDM)	Improvement of the ATM/airport operations through the integration and monitoring of Airport...	SOL OI EN DS ICAO
DCB-0310	Improved Efficiency in the Management of Airport and ATFCM Planning	Airport planning is continuously refined with the application of local airport CDM processes. The...	SOL OI EN DS ICAO A-A

Enablers						
Required/Optional	New/Inherited	Develop/Use	Enabler Code	Enabler Title	Enabler Description	Related Elements
→			AERODROME-ATC-57	Advanced Airport Tower CWP to support new functionalities	Advanced Airport Tower CWP integrating/supporting new functionalities such as: enhanced...	STK OI DS
→			AIRPORT-02	TTA Airport Impact Assessment Tool	Airport system capable to carry an airport impact assessment of TTA data provided by Network for...	STK OI EN DS
🔒			AIRPORT-03	Airports Operation Plan (AOP) tool	A local tool allowing all airport CDM partners to access and update the AOP (which provides a...	STK OI EN DS PCP
🔒			AIRPORT-04	De-icing support tool in a A-CDM environment	De-icing management tool (DIMT) to support de-icing operations and integration into the A-CDM...	STK OI EN DS
🔒			AIRPORT-31	Airport CDM (levels 1, 2 & 3)	An airport is considered as achieving Airport-CDM when the Airport CDM information sharing,...	STK OI EN DS PCP
🔒			AIRPORT-35a	Airport CDM (level 4 - CDM integrated with passenger process)	Integration of CDM processes with landside operations - Each airport partner shall provide its...	STK OI EN DS
🔒			AIRPORT-38	Airport/ATFCM Extended data interface	Provision of the interface to allow sharing of information between NOP and AOP. This info will be...	STK OI EN DS PCP
🔒			AIRPORT-40	Airport Performance Monitoring System	A system supporting performance monitoring through key indicators, resource availability and...	STK OI EN DS
🔒			AOC-ATM-13	Participating of the FOC/ WOC in the airport triggered CDM process	Enables the FOC/ WOC to participate in the CDM process triggered by an airport. That includes...	STK OI EN DS PCP

Enablers						
Required/Optional	New/Inherited	Develop/Use	Enabler Code	Enabler Title	Enabler Description	Related Elements
🔒			CTE-C06b	PENS - Phase 2	PENS phase 1 and in addition connectivity to other ATM Users and new datalink systems (SATCOM,...	STK OI OBJ DS ⚙️
🔒			HUM-007	New communication and interaction patterns between stakeholders of airport operations linked to collaborative rolling AOP/NOP management.	New interactions and communication patterns are clearly established between all actors of airport...	STK OI DS PCP 👤
🔒			HUM-014	New interactions and communication patterns for the integration of landside process outputs into the A-CDM process.	New interactions and communication patterns will be created between Ground Handling Agent and all...	STK OI DS 👤
🔒			HUM-015	New working methods for the integration of landside process outputs into the A-CDM process.	Working methods defined at ANSPs, NM, Airport Operators and Airspace Users will be...	STK OI DS 👤
🔒			HUM-016	New working methods for the integration of the Airport Transit View (ATV) into the A-CDM process.	Working methods defined at ANSPs, NM, Airport Operators, Ground Handling Agents and Airspace...	STK OI DS 👤
➔			METEO-03	Provision and monitoring of real-time airport weather information (PCP)	ATM-MET ground based sub-system dedicated to acquire, collect, combine, provide and monitor...	STK OI EN DS PCP ⚙️
➔			METEO-04b	Generate and provide MET information services relevant for Airport and final approach related operations (PCP)	ATM-MET system acquiring, generating, assembling and providing Meteorological (MET) information...	STK OI EN DS PCP
🔒			NIMS-41	NM interface capable to integrate Airport impact assessment	NM system for AIRPORT/CFMU Extended data interface, which processes the Airport impact assessment...	STK OI EN DS
🔒			PRO-028	Procedures to support AOP-NOP collaborative process	Procedures to support the AOP-NOP collaborative process in order to ensure that common AOP-NOP...	STK OI DS PCP
🔒			PRO-073a	Procedures to optimise the de-icing process within the constraints of the operational schedule, the optimal runway use and the local de-icing capacity.	The ice-free status of a de-iced airframe at the hold will depend on the nature of the de-icing...	STK OI EN DS
🔒			REG-0510	Regulatory Provisions for the integration and use of meteorological information in ATM operations and systems in a harmonised manner	-	OI EN DS
🔒			SWIM-APS-03a	Provision of G/G ATFCM Information Services	Provision of G/G ATFCM Information Services (in line with AIRM and ISRM) covering: - Flight Plan...	STK OI EN DS PCP Ⓢ
🔒			SWIM-APS-04a	Consumption of G/G ATFCM Information Services	Consumption of G/G ATFCM Information Services: - Flight Plan Services - Flight Plan...	STK OI EN DS PCP Ⓢ

Enablers						
Required/ Optional	New/ Inherited	Develop/ Use	Enabler Code	Enabler Title	Enabler Description	Related Elements
🔒			SWIM-INFR-05a	General SWIM Services infrastructure Support and Connectivity.	Provision of the additional functionality needed by the individual Stakeholder to support their...	STK OI EN DS PCP
🔒			SWIM-NET-01a	SWIM Network Point of Presence	Provision of the individual stakeholder's point of presence onto the common/interconnected...	STK OI EN DS PCP
➔			HUM-008	Role of APOC supervisor	The APOC supervisor role will be responsible for initiating and leading the APOC process that...	STK OI DS 👤
➔			HUM-009	New role of APOC representative from Airport Operator	A new role of Airport Operator APOC representative will be created. This new role will be...	STK OI DS 👤
➔			HUM-011	New role of APOC representative from Airspace User	A new role of Airspace User APOC representative will be created for each airspace user. This new...	STK OI DS 👤
➔			HUM-012	New role of APOC representative from ANSP	A new role of ANSP APOC representative will be created. This new role will be responsible for: -...	STK OI DS 👤
➔			HUM-013	Tasks transfer from AOP stakeholders to APAMS	In the new APOC decision making process, some tasks like the proposal of pre-planned common...	STK OI 👤
➔			SWIM-SUPT-01a	SWIM Supporting Registry Provisions	Provision, by specific stakeholders, of Register functionality to support the use of SWIM...	STK OI EN DS PCP
➔			SWIM-SUPT-03a	SWIM Supporting Security Provisions	Provision, by specific stakeholder(s) of functionality to support the use of Security Keys for...	STK OI EN DS PCP
➔			SWIM-SUPT-05a	SWIM Supporting IP Network Bridging Provisions	Provision, by specific stakeholders, of the functionality to provide bridging between separate...	STK OI EN