

<b>Deployment Scenario Title</b>	Enhanced collaborative airport performance planning and monitoring
<b>Deployment Scenario Description</b>	🔗 Enhanced collaborative airport performance planning and monitoring: this aims at improving the collaborative airport performance planning and monitoring processes, in particular through the inclusion in the airspace processes of the relevant landside (passengers and baggage flows) process outputs, by taking into account connectivity and multimodality aspects, and through the extension of turnaround monitoring within the airport operations centre. The goal is to achieve full and seamless interoperability with AU operational systems and to improve connectivity between regional airports and the NMOC.
<b>Essential Operational Change</b>	ATM Interconnected Network
<b>Maturity</b>	In development phase: Key R&D Activities

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	

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	TWR, APP, ENR	APT Operator	APT Operator	Scheduled, FOC	WOC	Network Manager

SESAR Solutions			
Solution Code	Solution Title	Solution Description	Related Elements
PJ.04-01	Enhanced Collaborative Airport Performance Planning and Monitoring	Enhanced Collaborative Airport Performance Planning and Monitoring extends the airport...	<b>SOL</b> <b>PJ</b> <b>OI</b> <b>DS</b> <b>EOC</b>
PJ.04-W2-28	Enhanced Collaborative Airport Performance Planning and Monitoring	The key R&D activity aims at enhancing the collaborative airport performance planning and...	<b>PJ</b> <b>DS</b> <b>EOC</b>

Operational Improvement Steps			
OI Step Code	OI Step Title	OI Step Description	Related Elements
AO-0801-B	Collaborative Airport Planning Interface (AOP fully integrated with NOP & local business rules)	Maintenance of the evolving content of the Airport Operations Plan (AOP) including: (1) the...	SOL OI EN DS
AO-0802-B	A-CDM Process Enhanced through Integration of Landside (passenger and baggage) Process Outputs	Enhancement of the airside process with the inclusion of landside (passenger flow including...	SOL OI EN DS
AO-0818	Extended Turn-round Monitoring	Synchronization of all processes involved in turn-around. By monitoring key synchronization...	SOL OI EN DS
AO-0821	Post-Operations Analysis support solutions and reporting capabilities	Linked to the decision support suite, the Post Operations Analysis Suite (POAS) uses a coherent...	SOL EN DS
AO-0824	Network-connected Regional Airports	The connectivity between regional airports and the NMOC is improved thanks to the provision of...	SOL OI EN DS

Enablers						
Required/Optional	New/Inherited	Develop/Use	Enabler Code	Enabler Title	Enabler Description	Related Elements
🔒			AIRPORT-02b	Enhanced Airport Impact Assessment Tool	An airport system capable to perform an airport impact assessment of TTA data provided by Network...	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-03b	Enhanced Airport Operation Plan (AOP) Tool	A local airport system (AOP toolset) allowing all airport CDM partners to have access to the...	STK OI EN DS
🔒			AIRPORT-03c	Light Airport Operational Plan (AOP) Management Tool (for Regional Airports)	A local management tool dedicated to regional airports allowing all airport partners to access...	STK OI EN DS
🔒			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-35b	Airport CDM (level 4 - CDM integrated with landside processes)	Integration of CDM processes with landside operations - Each airport partner shall provide its...	STK OI 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-40b	Enhanced Airport Performance Monitoring System (Airside/Landside dashboard)	A system supporting performance monitoring through key indicators, resource availability and...	STK OI EN DS
🔒			AIRPORT-50	Airport Operational Business Model Database for Determination of CDM Event Milestones	A tool, dedicated to regional airports, based on an airport "business model" that uses...	STK OI DS

Enablers						
Required/Optional	New/Inherited	Develop/Use	Enabler Code	Enabler Title	Enabler Description	Related Elements
🔒			AIRPORT-51	Airport Data Recording System	System capable of recording all airport data including ATC airport operations related data...	STK OI EN DS
🔒			AIRPORT-54	Airport Data Analysis System (Post-Ops based on Recording)	System capable of: - Automatic and user driven reporting of airport performance at various...	STK OI EN DS
🔒			AIRPORT-51	Airport Data Recording System	System capable of recording all airport data including ATC airport operations related data...	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
🔒			AOC-ATM-20	Sharing of trajectory data between AOC/WOC and the ATM world using B2B web services	Following data communication will be managed using B2B web services: Trajectory related data...	STK OI EN DS PCP
🔒			HUM-010	New role of APOC representative from Ground Handling Agent	A new role of Ground Handler APOC representative will be created. This new role will be...	STK OI DS 👤
🔒			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 👤
🔒			NIMS-25	Integration of Airport CDM data into Network DCB sub-system	"Network DCB sub-system enhanced to interact with Airport Operators for CDM, to better coordinate...	STK OI DS PCP
🔒			NIMS-46	Integrated local DCB working position	Integrated local DCB working position with improved situation awareness need to be developed for...	STK OI DS
🔒			NIMS-48	Integrated Network Working Position (iNWP)	New operational tools shall be designed for iNWP (Integrated Network Working Position):...	STK OI DS
🔒			NIMS-52	Enhancement of ETFMS for including airport constraints	This Enabler is for enhancement of European traffic flow management system (e.g. ETFMS) to...	STK OI DS
🔒			PRO-095	Airline Operational Procedures for modifying RBT/ATV including agreed TTA to accommodate selected priorities	Airline Operational Procedures for modifying RBT/ATV including agreed TTA to accommodate selected...	STK OI DS

Enablers						
Required/ Optional	New/ Inherited	Develop/ Use	Enabler Code	Enabler Title	Enabler Description	Related Elements
🔒			PRO-096	Airline Operational Procedures for modifying SBT/ATV including agreed TTA to accommodate selected priorities	Airline Operational Procedures for changes to SBT/ATV in order to accommodate collaboratively...	STK OI DS
🔒			SWIM-APS-03b	Provision of ASM-ATFCM Information Services for Step 2	Wide area communications services for collecting, disseminating and negotiating demand and...	OI EN DS S
🔒			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 S
🔒			SWIM-APS-04b	Consumption of G/G and initial A/G ASM-ATFCM Information Services on Wide Area communications	Wide area communications services for collecting, disseminating and negotiating demand and...	OI DS S
🔒			SWIM-INFR-05b	General SWIM Services infrastructure Support and Connectivity	Provision of the additional functionality needed by the individual Stakeholder to support their...	OI DS
➔			AIRPORT-09	Airport Data Replay System	System capable of replaying all relevant surface movement data enriched with any other relevant...	STK OI EN
🔒			AIRPORT-51	Airport Data Recording System	System capable of recording all airport data including ATC airport operations related data...	STK OI EN DS