Deployment Scenario Title	Mission trajectories management with integrated dynamic mobile areas type 1 and type 2
Deployment Scenario Description	Mission trajectory management with integrated dynamic mobile areas type 1 and type 2: the objective is to improve the use of airspace capacity and the efficiency of ASM and to increase flexibility in civil-military coordination, for both civil and military users, through increasing levels of automation. Improvements include the connection of mission trajectory management with booking of airspace reservation (in the context of this solution, dynamic mobile areas type 1 and type 2), for which the WOC will be the key actor. Coordination between the WOC and the regional NM is a key element of this activity.
Essential Operational Change	Fully Dynamic and Optimised Airspace
Maturity	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, SWIM, AIS, MET, AMC	TWR, APP, ENR, CNS, AIS, MET, SWIM, AMC	APT Operator	APT Operator	FOC	Transport, Fighter, WOC	Network Manager

SESAR Solutions			
Solution Code	Solution Title	Solution Description	Related Elements
PJ.07-03	Mission Trajectory Driven Processes	Mission Trajectory Driven Processes refer, through a full integration of the WOC within the ATM...	SOL PJ OI OBJ DS EOC
PJ.07-W2-40	Mission trajectories management with integrated Dynamic Mobile Areas Type 1 and Type 2	The objective of the R&D activity is to improve the use of airspace capacity for both civil...	PJ DS EOC

Operational Improvement Steps			
OI Step Code	**OI Step Title**	**OI Step Description**	**Related Elements**
AOM-0303	Pan-European OAT Transit Service	A pan-European OAT-IFR Transit Service (OATTS) is in place, which connects national structures...	SOL OI EN OBJ DS
AOM-0304-A	Improved and Harmonised OAT Flight Plan	Military activities planned for the long term by military Authorities will be shared with the ATM...	SOL OI EN DS
AUO-0210	Participation in CDM through iSMT and Target Time (TTO) negotiation	Data describing iMT profile will be shared via the improved OAT Flight Plan in the medium/short...	SOL EN DS
AUO-0211	WOC Management of iRMT via improved OAT FPL	The transition between iSMT and iRMT is performed at a certain moment in time defined at the...	SOL EN DS
AUO-0215	Sharing iSMT through improved OAT flight plan	The initial data representing the MT (iSMT) will be shared through the ASM process in the...	SOL EN DS
AUO-0228	Agreed iRMT	The iRMT will be the partial implementation of the MT, which is the reference used by all ATM...	SOL EN DS

Enablers						
Required/ Optional	**New/ Inherited**	**Develop/ Use**	**Enabler Code**	**Enabler Title**	**Enabler Description**	**Related Elements**
🔒			A/C-72	Use of FMS/MMS data base to support mission trajectory	Data base used by aircraft FMS/MMS to support mission trajectory related with use of ARINC 424 MMS	STK OI EN DS
🔒			AAMS-10a	Initial airspace management system enhanced with commonly applied GAT/OAT handling	Local airspace management tools (either pure local tools or remote regional tool) enhanced to...	STK OI EN OBJ DS
🔒			AIMS-06	Ground-Ground AIS provision to ASM	Adaptation of the functional blocks so that they can provide/use Aeronautical Information in the...	STK OI EN DS PCP
🔒			AIMS-19b	Aeronautical Information system is interfaced to receive and distribute aeronautical information electronically to military systems.	Aeronautical Information system is a user for Aeronautical Information from military systems and...	STK OI EN OBJ DS
🔒			AOC-ATM-14	Upgrade of WOC system to handle improved OAT flight plans	Upgrade WOC systems (military flight plan filing systems and/or mission preparation systems) to...	STK OI EN DS
🔒			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
🔒			CTE-C06d	Gateway for CIV/MIL Interoperability	Information exchange gateways/interfaces supporting military aircraft equipped to exchange ATN/B1...	STK OI DS ⚙
🔒			ER APP ATC 82	Enhance EN/APP ACC to use eFPL data	Modification of the EN APP ATC functions in order to use eFPL data for the trajectory prediction.	STK OI EN DS
🔒			ER APP ATC 82b	Enhance FDP to process iSMT/iRMT	Update the ATC systems pertinent functional blocks to process the iSMT/iRMT, including the...	STK OI DS

Enablers						
Required/ Optional	New/ Inherited	Develop/ Use	Enabler Code	Enabler Title	Enabler Description	Related Elements
🔒			ER APP ATC 143	Upgrade of ATC System to handle Improved OAT Flight Plan	Update ATC systems to receive and decode the improved OAT flight plan, calculating the trajectory...	STK OI EN DS
🔒			ER APP ATC 168	Enable ATC System to manage improved OAT flight plans with inherent ARES information (reservation restrictions) in accordance with VPA design principle.	FDP system is upgraded to process improved OAT flight plans with inherent ARES information...	STK OI DS
🔒			METEO-06b	Generate and provide MET information relevant for Network related operations (PCP)	ATM-MET system acquiring, generating, assembling and providing Meteorological (MET) information...	STK OI EN DS PCP
🔒			MIL-0103	Wing Operations Centre Mission Support System (including update/revision) of iMT	Wing Operations Centre Mission Support System enhanced to support the monitoring of iRMT in the...	STK OI DS
🔒			MIL-0106	Wing Operations Centre Mission Support System enhanced to support the CDM process	Wing Operations Centre Mission Support System enhanced to be able to support the CDM process in...	STK OI DS
→			MIL-0501	Specifications for the interoperability of military ground systems with SWIM	Develop specifications of the upgrades that are needed to allow ground military systems to...	STK OI DS PCP
→			MIL-0502	Upgrade of military ground systems to allow bi-directional exchanges with non-military IP networks	Update of the military ground systems with the additional control and protection needed for...	STK OI EN DS PCP
🔒			MIL-STD-03	Update of IFPS User Manual to include OAT Specificities in the Flight Plan (Improved OAT flight plan)	The IFPS User Manual is updated to describe the extensions of the ICAO 2012 flight plan that are...	STK OI DS
🔒			MIL-STD-04	Procedure to implement EUROAT rules.	EUROCONTROL Specification for harmonized Rules for Operational Air Traffic (OAT) under Instrument...	STK OI DS
🔒			NIMS-21b	Flight Planning extended with eFPL Distribution service	Modification of the Regional ATFCM flight plan distribution service for eFPL via...	STK OI EN DS
🔒			NIMS-35	Flight Planning management sub-system enhanced to process improved OAT flight plans	The IFPS is enhanced to receive, validate and distribute to concerned ATC systems the Improved...	STK OI EN DS
🔒			NIMS-45	Initial Flight Planning management enhanced to support initial Mission Trajectory	Flight planning management enhanced to process improved OAT Flight Plan including initial Mission...	STK OI DS
🔒			PRO-014	Procedures harmonised at pan-European level for the management of the Improved OAT FPL (flight plan filing, validation, acceptance and distribution)	Standardized Military Procedures for flight plan filing are developed for a Pan-European...	STK OI DS

Enablers						
Required/ Optional	New/ Inherited	Develop/ Use	Enabler Code	Enabler Title	Enabler Description	Related Elements
🔒			PRO-015	Harmonised ATC Procedures for providing a standardized service to OAT flights at pan-European level	ATC Procedures are developed for providing a standardized service to OAT flights regardless of...	STK OI DS
🔒			PRO-076	Procedures for the iSMT in the CDM process	Procedures to facilitate the allocation of mission specific requirements through the CDM process...	STK OI DS
🔒			PRO-077	Procedures facilitating iRMT management	Procedures to facilitate the management of iRMT in the execution phase and the revision of the...	STK OI DS
🔒			SWIM-APS-01a	Provision of G/G Aeronautical Information services	Provision of G/G Aeronautical Information services : - PAMS services - INO services - SDO...	STK OI EN DS PCP S
🔒			SWIM-APS-02a	Consumption of Aeronautical Information services	Consumption of Aeronautical Information services for : - PAMS services - INO services - SDO...	STK OI EN DS PCP S
🔒			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 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-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
→			AOC-ATM-15	Upgrade of Wing Ops System Technical Architecture to provide Military Mission Trajectory Services	Adaptation of military flight plan filing systems and of military mission preparation systems to...	STK OI EN DS PCP
→			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