

Deployment Scenario Title	Enhanced integration of AU trajectory definition and network management processes
Deployment Scenario Description	Enhanced integration of AU trajectory definitions and network management processes: the objective is to reduce the impact of ATM planning on airspace users' costs of operations, by providing them with better access to ATM resource management and enabling them to cope better with ATM constraints. This will improve airspace users' flight planning and network management through improved FOC participation in the ATM network collaborative processes in the context of FF-ICE and its potential evolution.
Essential Operational Change	Trajectory Based Operations
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	
				FOC		Network Manager

SESAR Solutions			
Solution Code	Solution Title	Solution Description	Related Elements
PJ.07-01	AU Processes for Trajectory Definition	As specified in the latest FF-ICE Provisions: "The FF-ICE Planning Service is provided to..."	SOL PJ OI DS EOC ICAO
PJ.07-W2-38	Enhanced integration of AU trajectory definition and network management processes	The objective of this Key R&D activity is to reduce the impact of ATM planning on Airspace...	PJ DS EOC

Operational Improvement Steps			
OI Step Code	OI Step Title	OI Step Description	Related Elements
AUO-0207	Preliminary flight planning	In the flight-planning phase, the SBT management processes are aligned with ICAO FF-ICE increment...	SOL EN DS ICAO
AUO-0208	Use of Simple AU Preferences in DCB Processes	As part of CDM processes, the AU can provide preferences information either before or after the...	SOL EN DS
AUO-0219	Use of Enriched DCB Information and Enhanced What-Ifs to Improve AU Flight Planning	Enriched DCB information will be available to improve AUs decision process when planning or...	SOL EN DS ICAO

Enablers						
Required/Optional	New/Inherited	Develop/Use	Enabler Code	Enabler Title	Enabler Description	Related Elements
🔒			AOC-ATM-24	Integration of the AOWIR service provisions	Implementation of the new and modified functions for the trajectory calculation by using the DCB...	STK OI DS
🔒			AOC-ATM-25	Integration of PFP/eFPL submission in the flight planning	Enhancement of the flight planning functions to submit the Preliminary Flight Plan (PFP) and the...	STK OI DS
🔒			AOC-ATM-26	Integration of the AOWIR service provisions	Integration of the AOWIR proposeRoutes and whatIfReroute functions into the trajectory...	STK OI DS
🔒			HUM-019	New task to analyse the DCB impact and decide on the next action for the flight plan	The decision has to be taken based on the DCB impact of the flight plan, when it cannot be taken...	STK OI DS
🔒			NIMS-57	Integration of PFP/eFPL processing into Traffic Demand Management	Integration of the PFP and eFPL data into traffic demand and calculate the DCB impact of the PFP...	STK OI DS
🔒			SVC-006	FF-ICE Planning Service updated for the provision of the DCB data and enriched DCB data for a preliminary flight plan	FF-ICE Planning Service updated for the provision of the DCB data and enriched DCB data for a...	STK OI DS
🔒			SVC-007	FF-ICE Flight Information Service updated for the provision of the DCB data and enriched DCB data for a PFP and eFPL.	FF-ICE Flight Information Service updated for the provision of the DCB data and enriched DCB data...	STK OI DS
🔒			SVC-011	Enhance AOWIR SWIM service with the DCB constraint data for the AU or proposed trajectories	AOWIR SWIM service is enhanced to provide DCB constraint data for the AU or proposed trajectories	STK OI DS
🔒			SVC-012	Enhance AOWIR SWIM service with enriched DCB data	Enhance AOWIR SWIM service with enriched DCB data for the whatIfReroute and proposeRoutes...	STK OI DS
🔒			SWIM-APS-19	Provision of the FF-ICE Planning Service	Provision of the FF-ICE Planning service	STK OI EN DS
🔒			SWIM-APS-20	Consumption of the FF-ICE Planning service	Consumption of the FF-ICE Planning service	STK OI DS

Enablers						
Required/ Optional	New/ Inherited	Develop/ Use	Enabler Code	Enabler Title	Enabler Description	Related Elements
🔒			SWIM-APS-21	Provision of the FF-ICE Flight Information Service	Provision of the FF-ICE Flight Information Service	STK OI EN DS
🔒			SWIM-APS-22	Consumption of the FF-ICE Flight Information Service	Consumption of the FF-ICE Flight Information Service	STK OI DS
🔒			SWIM-APS-23	Consumption of the AOWIR service	Consumption of the AOWIR service	STK OI DS
🔒			SWIM-APS-24	Provision of the AOWIR service with the DCB constraint data	Provision of the AOWIR service with the DCB constraint data for the AU or proposed trajectories	STK OI DS
🔒			SWIM-APS-25	Provision of the AOWIR service with the enhanced DCB data	Provision of the AOWIR service with the enhanced DCB data for the AU and proposed trajectories.	STK OI DS
➔			NIMS-21a	Initial Flight Planning management enhanced to support 4D for Step 1	Flight Planning management enhanced to process Extended Flight Plan including 4D trajectory as...	STK OI EN DS PCP