

PCP		Active					ECAC+	
FCM08		Extended Flight Plan						
REG	ASP	MIL	APO	USE	INT	IND	NM	

Subject matter and scope

To achieve a common trajectory for ATM planning purposes, the Initial Trajectory Information Sharing requires the improvements in three main areas: quality and completeness of input information, the trajectory calculation method and sharing of the results. The trajectory information will allow a common view on planned trajectories to the various Stakeholders to be used to fulfill their different responsibilities.

The Extended Flight Plan (e-FPL) represents one of the system requirements supporting the Initial Trajectory Information. This objective addresses the message exchange between NM systems, ANSPs ATM system and AU/FOC /WOC flight plan filing systems in respect of collaborative flight planning, improving flight plan distribution and enhanced tactical flow management, using the e-FPL.

The e-FPL will include the planned 4D trajectory of the flight as well as flight performance data in addition to ICAO 2012 FPL data. The first phase that will be implemented should address only the exchange of e-FPL information between AUs and NM. The transmission of e-FPL data to ANSP (flight plan distribution) will be implemented when transition to FF-ICE provisions is achieved. e-FPL will be processed by AU flight planning systems and sent to IFPS. Initially the Extended Flight Plan exchange will be implemented using the flight data model developed by the NM for B2B and that is currently used for operations. Subsequently, as the FIXM version corresponding to FF-ICE/1 becomes available, the e-FPL will be migrated to FIXM.

NOTE FOR MILITARY AUTHORITIES: It is the responsibility of each Military Authority to review this Objective IN ITS ENTIRETY and address each of the SLoAs that the Military Authority considers RELEVANT for itself. This has to be done on top and above of the review of "MIL" SLoAs which identify actions EXCLUSIVE to MIL Authorities.

Applicability Area(s) & Timescale(s)

Applicability Area	All ECAC States. Plus: Israel		
Timescales:	From:	By:	Applicable to:
Initial operational capability	01/01/2016		Applicability Area
Full operational capability		31/12/2021	Applicability Area

References

European ATM Master Plan

Ol step -	[AUO-0203]-EFPL in NM processes								
Enablers -	AOC-ATM-20	METEO-06b INF08.1	NIMS-21a	NIMS-40	SWIM-APS-03a INF08.1, INF08.2	SWIM-APS-04a INF08.1	SWIM-GOV-05a	SWIM-INFR-05a INF08.1, INF08.2	
	SWIM-NET-01a INF08.1, INF08.2								

Legend:	WXYZ-001	Covered by SLoA(s) in this objective	WXYZ-002 zzz	Covered by SLoA(s) in another objective Objective covering the enabler	WXYZ-003	Not covered in the Implementation Plan
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Applicable legislation

Regulation (EU) No 716/2014 on the establishment of the Pilot Common Project
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Essential Operational Changes

- none -

SESAR Solution

#37 - Extended Flight Plan

FCM08	Extended Flight Plan
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ICAO GANP ? ASBUs

B1-FICE	Increased Interoperability, Efficiency and Capacity through FF-ICE, STEP 1 application before departure
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Deployment Programme

- none -	
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European Plan for Aviation Safety

- none -	
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Operating Environments

Airport
En-Route
Network
Terminal Airspace

Stakeholder Lines of Action (SLoAs)

SLoA ref.	Title	From	By
FCM08-ASP01	Upgrade the ground systems and develop the associated procedures.	01/01/2018	31/12/2021
FCM08-ASP02	Develop, and deliver as necessary, a safety assessment	01/01/2018	31/12/2021
FCM08-USE01	Upgrade the flight planning systems	01/01/2016	31/12/2021
FCM08-USE02	Train the personnel	01/01/2016	31/12/2021
FCM08-NM01	Upgrade the NM systems and develop the associated procedures related to e-FPL	01/01/2016	31/12/2021
FCM08-NM02	Upgrade the NM systems and develop the associated procedures related to FF-ICE/1	01/01/2018	31/12/2021

Description of finalised and deleted SLoAs is available on the eATM Portal @ https://www.eatmportal.eu/working/depl/essip_objectives

Expected Performance Benefits

Safety:	Increased safety due to better traffic predictability. Reduction of over-delivery risk.
Capacity:	-
Operational Efficiency:	Executed trajectory closer to Airspace User's preferences. Enhanced tactical flow management allows improved operational efficiency through better predictability.
Cost Efficiency:	-
Environment:	-
Security:	-

Detailed SLoA Descriptions

FCM08-ASP01	Upgrade the ground systems and develop the associated procedures.	From:	By:
		01/01/2018	31/12/2021
Action by:	ANS Providers		
Description & purpose:	Upgrade the ground systems with the capability to receive and process e-FPL information via FF-ICE/1 and develop the associated procedures.		
ATM Master Plan relationship:	[ATC-STD-01]-Ground-Ground flight data exchange		
Finalisation criteria:	1 - The local systems have the capability to receive and process e-FPL		
FCM08-ASP02	Develop, and deliver as necessary, a safety assessment	From:	By:

FCM08		Extended Flight Plan	
		01/01/2018	31/12/2021
Action by:	ANS Providers		
Description & purpose:	Develop, and deliver as necessary, a safety assessment of the changes imposed to the local ground systems by the implementation of the capability to receive and process e-FPL information via FF-ICE/1. The safety assessment shall be based on a fully validated/recognised method.		
Supporting material(s):	EUROCONTROL - EAM 4 - ESARR 4 - Risk Assessment and Mitigation in ATM - Edition 1.0 / 04/2001 Url : https://www.eurocontrol.int/publication/esarr-4-risk-assessment-and-mitigation-atm		
Finalisation criteria:	1 - The safety argument for all changes generated by the upgrade of the systems to support e-FPL has been developed 2 - The safety argument has been delivered to NSA if new standards are applicable or if the severity class of identified risks is 1 or 2.		
FCM08-USE01	Upgrade the flight planning systems	From: 01/01/2016	By: 31/12/2021
Action by:	Airspace Users		
Description & purpose:	Upgrade the flight planning systems with the capability to exchange extended flight plan data with the NM (B2B and FIXM) and develop the associated procedures.		
ATM Master Plan relationship:	[AOC-ATM-20]-Sharing of trajectory data between AOC/WOC and the ATM world using B2B web services [STD-033]-Flight Information Exchange Model v4 incl. ICAO FPL 2012, Extended Flight Plan and Flight Objects elements, in accordance with SESAR FIXM Strategy.		
Finalisation criteria:	1 - Flight Planning systems have the capability to exchange and process extended flight plan and corresponding associated messages		
FCM08-USE02	Train the personnel	From: 01/01/2016	By: 31/12/2021
Action by:	Airspace Users		
Description & purpose:	Ensure that all operational personnel concerned with flight planning is adequately trained for their job functions in relation to the implementation of e-FPL		
Finalisation criteria:	1 - All operational personnel concerned with flight planning has been adequately trained in relation to the implementation of e-FPL		
FCM08-NM01	Upgrade the NM systems and develop the associated procedures related to e-FPL	From: 01/01/2016	By: 31/12/2021
Action by:			
Description & purpose:	Upgrade the NM systems with the capability to able to receive, process and distribute extended flight plan and develop the associated procedures		
ATM Master Plan relationship:	[NIMS-21a]-Initial Flight Planning management enhanced to support 4D for Step 1		
Finalisation criteria:	1 - The NM systems have the capability to receive process and distribute as necessary extended flight plan information and corresponding associated messages.		
FCM08-NM02	Upgrade the NM systems and develop the associated procedures related to FF-ICE/1	From: 01/01/2018	By: 31/12/2021
Action by:			
Description & purpose:	Upgrade the NM systems with the capability to distribute e-FPL data to ANSPs via FF-ICE/1 and associated procedures.		
ATM Master Plan relationship:	[NIMS-21a]-Initial Flight Planning management enhanced to support 4D for Step 1		
Finalisation criteria:	1 - The NM systems have the capability to distribute e-FPL via FF-ICE/1.		

REG	ASP	MIL	APO	USE	INT	IND	NM	

Subject matter and scope

Applicability Area(s) & Timescale(s)

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References

European ATM Master Plan

Legend:	WXYZ-001	Covered by SLoA(s) in this objective	WXYZ-002 zzz	Covered by SLoA(s) in another objective Objective covering the enabler	WXYZ-003	Not covered in the Implementation Plan
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Applicable legislation

Essential Operational Changes

SESAR Solution

ICAO GANP ? ASBUs

Deployment Programme

European Plan for Aviation Safety

Operating Environments

Stakeholder Lines of Action (SLoAs)

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Expected Performance Benefits

Safety:
Capacity:
Environment:
Security: