SESAR	Active									ECAC+
FCM03	**Collaborative Flight Planning**									
REG	**ASP**	**MIL**	**APO**	**USE**	**INT**	**IND**	**NM**	**MET**	**AIS**	**USP**

Subject matter and scope

Improve collaboration between the NM, ANSPs, airports and airspace users in flight plan (FP) filing, in particular to assist airspace users in filing their FPs and in re-routings according to the airspace availability and ATFM situation.

The ATC flight plan (AFP) messages sent to the NM serve purpose of:
- Enabling NM to provide ATC Units with more accurate FP information, improving their traffic situation awareness and reducing the workload caused by last minute updates or missing FPs.
- Updating the ETFMS with FP information in order to reflect as accurately as possible the current and future flight trajectories, providing accurate sector load calculations.

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 military authorities.

Applicability Area(s) & Timescale(s)

Applicability Area	All ECAC+ States			
Timescales:		**From:**	**By:**	**Applicable to:**
Initial operational capability		01/01/2000		Applicability Area
Full operational capability			31/12/2017	Applicability Area

References

European ATM Master Plan

OI step	-	[IS-0102]-Improved Management of Flight Plan After Departure						
	Enablers -	NIMS-02	NIMS-20 FCM06	PRO-005				

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

Applicable legislation

-none-

Essential Operational Changes

- none -

SESAR Solution

- none -

ICAO GANP - ASBUs

B0-NOPS	Improved Flow Performance through Planning based on a Network-Wide view

Deployment Programme

- none -	

European Plan for Aviation Safety

- none -	

Operating Environments

FCM03	Collaborative Flight Planning

Airport
En-Route
Network
Terminal Airspace

Stakeholder Lines of Action (SLoAs)

SloA ref.	Title	From	By
FCM03-ASP01	Provide flight plan message processing in ICAO format	**FINALISED**	
FCM03-ASP02	Automatically process FPLs derived from RPLs	**FINALISED**	
FCM03-ASP03	Provide flight plan message processing in ADEXP format	01/12/1997	31/12/2012
FCM03-ASP04	Processing of APL and ACH messages	**FINALISED**	
FCM03-ASP05	Automatically provide AFP for missing flight plans	01/03/1998	31/12/2017
FCM03-ASP06	Automatically provide AFP message for change of route	01/03/2003	31/12/2017
FCM03-ASP07	Automatically provide AFP message for a diversion	01/03/2008	31/12/2017
FCM03-ASP08	Automatically provide AFP message for a change of flight rules or flight type	01/03/2003	31/12/2017
FCM03-ASP09	Automatically provide AFP message for a change of requested cruising level	01/03/2003	31/12/2017
FCM03-ASP10	Provide AFP messages in ADEXP format	**DELETED**	
FCM03-ASP11	Use IFPLID in all messages to ETFMS	**DELETED**	
FCM03-ASP12	Use IFPLID in exchange of route-charge data	**DELETED**	
FCM03-ASP13	Automatically provide AFP message for change of aircraft type	01/03/2003	31/12/2017
FCM03-ASP14	Automatically provide AFP message for change of aircraft equipment	01/03/2008	31/12/2017
FCM03-NM01	Integration of Automatic AFP in NM systems	01/01/2010	31/12/2017

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

Expected Performance Benefits

Safety:	Prevention of overloads.
Capacity:	Better use of the available network capacity hence reducing delays.
Operational Efficiency:	A better traffic prediction will enhance traffic smoothing allowing less 'unnecessary' actions to be taken. Earlier awareness of the updated traffic situation will permit the flow management positions to consider and implement remedial actions to reduce the impact of the measures taken to accommodate the traffic. From the perspective of the airspace users, better traffic prediction will provide improved ability to maintain accurate estimated off-block times (EOBTs) for the return and subsequent legs for a flight/aircraft.
Cost Efficiency:	-
Environment:	-
Security:	-

Detailed SLoA Descriptions

FCM03-ASP01	Provide flight plan message processing in ICAO format	From: 01/03/1995	By: 31/12/1995
Action by:	**ANS Providers**		
Description & purpose:	Receive and automatically process IFPS output of all ICAO-defined flight plan messages for input into the local ATC systems. This excludes FPLs derived from RPLs (see also FCM03-ASP02).		
	Note :Processing of IFPS output without manual intervention. The SloA can be considered as not applicable if the amount of IFR/GAT traffic does not justify automation.		
Specific applicability:	ECAC States, IFR/GAT only.		
Finalisation criteria:	1 - Automatic processing of flight plan messages in ICAO format has been implemented.		

FCM03-ASP02	Automatically process FPLs derived from RPLs	From: 01/03/1995	By: 31/12/1995
Action by:	**ANS Providers**		
Description & purpose:	Receive and automatically process IFPS output derived from RPL to suppress the need for RPL bulk-output from IFPS.		
	Note :No longer requiring RPL bulk-output or transmission of FPLs derived from RPLs by the NM. The SloA can be considered as not applicable if the amount of IFR/GAT traffic does not justify automation.		
Specific applicability:	ECAC States, IFR/GAT only.		
Finalisation criteria:	1 - Automatic processing of FPLs derived from RPLs has been implemented.		

FCM03	Collaborative Flight Planning

FCM03-ASP03	Provide flight plan message processing in ADEXP format	From: 01/12/1997	By: 31/12/2012

Action by:	ANS Providers
Description & purpose:	Receive and automatically process IFPS output of all defined flight plan messages for input into local ATC systems in ADEXP format in line with ICAO State Letter (AN 13/2.1-08/50) - 25 June 2008. Impact of Flight Plan 2012 changes: The basic flight plan form and the field composition within the FPL message remains unchanged, but the content of some fields will change. - changes to indications in Items 10 and 18 (including the use of digits) describing the precise NAV/COM/SUR capabilities of the flight - the ability to file a FPL up to 5 days (120 hours) before the flight, using the Date of Flight (DOF/) in Item 18 - addition of new Item 18 indicators and changes to the contents of several existing indicators. - a change to the description of a significant point which may now be described by range and bearing The field composition within associated messages (CHG, DEP, CNL, ARR, RQP) will change to include the EOBT and Item 18 DOF/ thus ensuring association to the correct FPL.
	Note :All national ATC systems that receive flight plan data from IFPS receive and process the data in ADEXP format. The SloA can be considered as not applicable if the amount of IFR/GAT traffic does not justify automation.
Specific applicability:	ECAC States, IFR/GAT only.
Supporting material(s):	EUROCONTROL - SPEC 107 - EUROCONTROL Specification for ATS Data Exchange Presentation (ADEXP) - Edition 3.2 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-ats-data-exchange-presentation-adexp
Finalisation criteria:	1 - ATC system is able to receive and process flight plan data from IFPS in ADEXP format.

FCM03-ASP04	Processing of APL and ACH messages	From: 01/12/1997	By: 31/12/1999

Action by:	ANS Providers
Description & purpose:	Process automatically, in the local ATC systems, real time updates to flight plan information as provided by IFPS via APL and ACH messages.
	Note :The SLoA may be implemented as a manual processing if the amount of IFR/GAT traffic does not justify automation.
Specific applicability:	ECAC States, IFR/GAT only.
Finalisation criteria:	1 - Processing of APL and ACH messages by the ANSP has been implemented.

FCM03-ASP05	Automatically provide AFP for missing flight plans	From: 01/03/1998	By: 31/12/2017

Action by:	ANS Providers
Description & purpose:	Automatically provide IFPS with updated flight plan information on airborne flights by means of AFP message. Provide the AFP in case an IFR-GAT flight exists but no IFPL has been received from IFPS. The related AFP message can be sent in either ICAO or ADEXP format.
Specific applicability:	ECAC States, IFR/GAT only.
Supporting material(s):	EUROCONTROL - SPEC 107 - EUROCONTROL Specification for ATS Data Exchange Presentation (ADEXP) - Edition 3.2 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-ats-data-exchange-presentation-adexp
ATM Master Plan relationship:	[NIMS-02]-Provision , reception and processing of collaborative flight plan updates
Finalisation criteria:	1 - Reception of AFP messages by NM has been ensured.

FCM03-ASP06	Automatically provide AFP message for change of route	From: 01/03/2003	By: 31/12/2017

Action by:	ANS Providers
Description & purpose:	Automatically provide IFPS with updated flight plan information on airborne flights by means of AFP message; provide the AFP in case of a change of route where the exit point from the flight data processing area (FDPA) has changed. The related AFP message must be provided in ADEXP format only.
Specific applicability:	ECAC States, IFR/GAT only.
Supporting material(s):	EUROCONTROL - SPEC 107 - EUROCONTROL Specification for ATS Data Exchange Presentation (ADEXP) - Edition 3.2 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-ats-data-exchange-presentation-adexp
ATM Master Plan relationship:	[NIMS-02]-Provision , reception and processing of collaborative flight plan updates
Finalisation criteria:	1 - Transmission of AFP messages for route changes by the ANSP has been implemented.

FCM03-ASP07	Automatically provide AFP message for a diversion	From: 01/03/2008	By: 31/12/2017

Action by:	ANS Providers

FCM03	Collaborative Flight Planning

Description & purpose:	Automatically provide IFPS with updated flight plan information on airborne flights by means of AFP message; provide the AFP in case of a diversion. The related AFP message must be provided in ADEXP format only.
Specific applicability:	ECAC States, IFR/GAT only.
Supporting material(s):	EUROCONTROL - SPEC 107 - EUROCONTROL Specification for ATS Data Exchange Presentation (ADEXP) - Edition 3.2 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-ats-data-exchange-presentation-adexp
ATM Master Plan relationship:	[NIMS-02]-Provision , reception and processing of collaborative flight plan updates
Finalisation criteria:	1 - Transmission of AFP messages for diversions by the ANSP has been implemented.

FCM03-ASP08	Automatically provide AFP message for a change of flight rules or flight type	From: 01/03/2003	By: 31/12/2017

Action by:	ANS Providers
Description & purpose:	Automatically provide IFPS with updated flight plan information on airborne flights by means of AFP message; provide the AFP in case of a change of flight rules from VFR to IFR, or IFR to VFR, or a change of flight type from OAT to GAT, or GAT to OAT.
Specific applicability:	ECAC States, IFR/GAT only.
Supporting material(s):	EUROCONTROL - SPEC 107 - EUROCONTROL Specification for ATS Data Exchange Presentation (ADEXP) - Edition 3.2 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-ats-data-exchange-presentation-adexp
ATM Master Plan relationship:	[NIMS-02]-Provision , reception and processing of collaborative flight plan updates
Finalisation criteria:	1 - Transmission of AFP messages for changes of flight rules and flight types by the ANSP has been implemented.

FCM03-ASP09	Automatically provide AFP message for a change of requested cruising level	From: 01/03/2003	By: 31/12/2017

Action by:	ANS Providers
Description & purpose:	Automatically provide IFPS with updated flight plan information on airborne flights by means of AFP message. Provide the AFP in case of a change of requested cruising level. The SLoA refers to a permanent change of a Requested Cruising Level and not to flight level changes allocated on a tactical basis by ATC.
Specific applicability:	ECAC States, IFR/GAT only.
Supporting material(s):	EUROCONTROL - SPEC 107 - EUROCONTROL Specification for ATS Data Exchange Presentation (ADEXP) - Edition 3.2 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-ats-data-exchange-presentation-adexp
ATM Master Plan relationship:	[NIMS-02]-Provision , reception and processing of collaborative flight plan updates
Finalisation criteria:	1 - Transmission of AFP messages for changes of requested cruising level by the ANSP has been implemented.

FCM03-ASP13	Automatically provide AFP message for change of aircraft type	From: 01/03/2003	By: 31/12/2017

Action by:	ANS Providers
Description & purpose:	Automatically provide IFPS with updated Flight Plan information on airborne flights by means of AFP message. Provide the AFP in case of a change of aircraft type.
Specific applicability:	ECAC States, IFR/GAT only.
Supporting material(s):	EUROCONTROL - SPEC 107 - EUROCONTROL Specification for ATS Data Exchange Presentation (ADEXP) - Edition 3.2 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-ats-data-exchange-presentation-adexp
ATM Master Plan relationship:	[NIMS-02]-Provision , reception and processing of collaborative flight plan updates
Finalisation criteria:	1 - Transmission of AFP messages for changes of aircraft type by ANSP has been implemented.

FCM03-ASP14	Automatically provide AFP message for change of aircraft equipment	From: 01/03/2008	By: 31/12/2017

Action by:	ANS Providers
Description & purpose:	Automatically provide IFPS with updated Flight Plan information on airborne flights by means of AFP message. Provide the AFP in case of a change of aircraft equipment. The related AFP message must be provided in ADEXP format only.
Specific applicability:	ECAC States, IFR/GAT only.
Supporting material(s):	EUROCONTROL - SPEC 107 - EUROCONTROL Specification for ATS Data Exchange Presentation (ADEXP) - Edition 3.2 / 12/2017 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-ats-data-exchange-presentation-adexp
ATM Master Plan relationship:	[NIMS-02]-Provision , reception and processing of collaborative flight plan updates

FCM03	Collaborative Flight Planning

Finalisation criteria:	1 - Transmission of AFP messages for changes of aircraft equipment by ANSP has been implemented.		
FCM03-NM01	**Integration of Automatic AFP in NM systems**	From: 01/01/2010	By: 31/12/2017
Action by:	**NM**		
Description & purpose:	The automatic AFP messages should not be transmitted to IFPS without prior coordination and test validation by NM. NM should ensure the correctness of AFP messages by testing and validate t hem. If the testing is correct, the received AFP messages from a specific ASTC unit will be integrated in NM systems.		
ATM Master Plan relationship:	[NIMS-02]-Provision , reception and processing of collaborative flight plan updates		
Finalisation criteria:	1 - Integration of AFP messages in NM systems		