PC	P		Removed					EC	CAC+	
FCN	/ 105	Interactive Rolling NOP								
REG	ASP	MIL	APO	USE	INT	IND	NM	MET	AIS	USP

Subject matter and scope

The first steps of the interactive rolling NOP were already implemented through the deployment of the NOP portal (through n-CONECT platform and B2B services). Further information and data have been deployed to support the interactive approach to the NOP (e.g. ADR, DDR2,...) and the access to the NOP data will be more and more available through B2B services. Most of the enablers required are expected to be gradually deployed over this period.

The scope of this Implementation Objective consists in the implementation of a platform that uses the state-of-the-art technologies for creation of a virtual operations room for the physically distributed European ATM network operations, in support of the collaborative NOP. This platform will support the network collaborative rolling processes from strategic to real-time operations, including capabilities for online performance monitoring integrated and feeding back into the collaborative network planning. Also, the platform provides access to post-operational data for offline analysis and performance reporting.

Information and dialogue tools shall be accessed via an ATM Information Portal. Access to information is done in a secure way, tailored according the stakeholders needs and subject to access control rules, so that only those who have an operational need to access particular information are able to do so.

In addition, this Implementation Objective also covers the NM system upgrades related to AOP-NOP B2B interface for data exchanges with selected airports.

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.

NOTE: The deleted SLoAs ASP01 and ASP02 appear since the 2016 Edition in objective AOM19.1. The deleted SLoA NM11 is addressed by the objective INF08.1

Applicability Area(s) & Timescale(s)

Applicability Area			
Timescales:	From:	Ву:	Applicable to:
Initial operational capability	01/09/2013		Applicability Area
Full operational capability		01/01/2022	Applicability Area

References

European ATM Master Plan

European	ATM Master	Plan								
OI step -	[AOM-0202]-Enhanced Rea	I-time Civil-M	ilitary Coordina	ation of Airspace	<u>Utilisation</u>				
	Enablers -	AAMS-06a	AAMS-08 AOM19.5	AAMS-09 AOM19.5		AAMS-15	AIMS-06	All	MS-21	AIMS-22
		PRO-184 AOM19.5								
OI step -	[AOM-0205]-Modular Temp	orary Airspac	e Structures a	nd Reserved Area	<u>as</u>				
	Enablers -	AAMS-08 AOM19.5	NIMS-14a	PRO-009	PRO-082	PRO-185				
OI step -	[DCB-0102]-Interactive Rolling NOP									
	Enablers -	AAMS-06a	AIMS-21	PRO-035	5					
OI step -	[DCB-0103-A]-Initial collaborative NOP									
	Enablers -	AIRPORT-38	METEO-06	b MIL-0502	NIMS-13b FCM04.2	NIMS-14b	NIMS-25	PR	.O-028	REG-0518
		SWIM-APS- 01a	SWIM-APS 02a	- SWIM-APS 03a	S- SWIM-APS- 04a	SWIM-INFR- 05a	SWIM-NET- 01a	-		
OI step -	[IS-0901-A]	-SWIM-TI Yellov	v Profile for G	round/Ground	(G/G) information	sharing				
	Enablers -	REG-0519	SWIM-GOV 05a	'- SWIM-INF 05a	R- SWIM-NET- 01a	SWIM-SUPT- 01a	SWIM-SUPT 03a	-		
Logond:	W/VV7 001	Covered by S	LoA(s) in	NXYZ-002	Covered by SLo	A(s) in another of	objective V	VXYZ-	Not co	vered in the

FCM05	Interactive Rolling NOP
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Applicable legislation

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

Essential Operational Changes

- none -

SESAR Solution

#20 - Collaborative NOP for Step 1, #21 - Airport Operations Plan and AOP-NOP Seamless Integration

ICAO GANP - ASBUs

- none -

Deployment Programme

- none -

European Plan for Aviation Safety

- none -

Operating Environments

Airport

En-Route

Network

Terminal Airspace

Stakeholder Lines of Action (SLoAs)

SloA ref.	Title	From	Ву
FCM05-REG01	Review, as appropriate, the safety argument of the changes to the ASM system, supporting the implementation of interactive Rolling NOP by the NM	DELETED	
FCM05-ASP01	Upgrade the automated ASM support system with the capability of AIXM 5.1 B2B data exchange with NM	DELETED	
FCM05-ASP02	Perform an integration of the automated ASM support systems with the Network	DELETED	
FCM05-ASP03	Produce a safety assessment on the upgrade of automated ASM support systems to the AIXM 5.1 capability	DELETED	
FCM05-ASP04	Develop and implement ATFCM procedures for interaction with the NOP	01/09/2016	01/01/2022
FCM05-ASP05	Train the relevant personnel for interaction with the NOP	01/09/2016	01/01/2022
FCM05-APO01	Provide the required data to the Network Manager for DDR	FINALISED	
FCM05-APO02	Perform the integration of the AOP with the NOP	01/01/2015	01/01/2022
FCM05-USE01	Provide the required data to the Network Manager for DDR	FINALISED	
FCM05-NM01	ADR to provide, common and consolidated view of European airspace data containing both static and dynamic digital data	FINALISED	
FCM05-NM02	Upgrade NM system for external user access to the airspace data repository (making restrictions available in AIXM 5.1 format via B2B)	FINALISED	
FCM05-NM03	Equip Airspace management system with tools for collection of airspace data (Interoperability with ASM tools in AIXM 5.1)	FINALISED	
FCM05-NM04	Perform an integration of ASM support systems with the Network	FINALISED	
FCM05-NM05	Upgrade NM systems to allow the access of interested users to the Demand Data Repository	FINALISED	
FCM05-NM06	Implement FCM Procedures for on-line access/update to the NOP and notification of updates	FINALISED	
FCM05-NM07	Upgrade NM systems to allow FMP to remote access simulation via the NOP Portal (create of simulations and assessment of the results) and in a second step to edit scenario measures (regulation, config, capacities,) prior to running simulations	FINALISED	
FCM05-NM08	Flight Plan filing capability directly via the NOP portal	FINALISED	
FCM05-NM09	Develop AOP/NOP interfaces	FINALISED	

Implementation Plan Edition 2022

FCM05	Interactive Rolling NOP

FCM05-NM10	Integrate the AOPs into the Network Operation Plan	01/01/2016 01/01/2022	
FCM05-NM11	Develop Network Manager B2B services	DELETED	
FCM05-NM12	Enhance the NM technical platform and services	01/09/2016	01/01/2022
FCM05-NM13	Implement ATFCM procedures	01/09/2016	01/01/2022
Description of finalised	and deleted SLoAs is available on the eATM Portal @ https://www.eatmportal.eu/worl	cina/denl/essin_ob	iectives

Expected Performance Benefits

Safety:

Enhanced by improved sharing of the network situation.

Capacity:

Small benefits through improved use of the airport and airspace capacity resulting from a better knowledge of the

airspace availability and of the traffic demand.

Operational Efficiency:

Cost Efficiency:

Enhanced through use of cost efficient tools to access network information instead of expensive local tools or

procedures.

Environment: Security: -

Detailed SLoA Descriptions

	Detailed OLOA Descriptions					
	Develop and implement ATFCM procedures for interaction with	From:	By:			
FCM05-ASP04	the NOP	01/09/2016	01/01/2022			
Action by:	ANS Providers					
Description & purpose:	The SLoA addresses the definition, validation and deployment of the new/changed operational procedures pertinent to the interaction with the NOP.					
Supporting material(s):	EUROCONTROL - NOP Portal User Guide - Edition 21.5-119					
	Url: https://www.eurocontrol.int/sites/default/files/content/documents/nmuser-guide-current.pdf	n/network-operations/use	er-guides/nop-portal-			
	SJU - SESAR Solution 20: Data Pack for initial collaborative Network Oր	perations Plan (NOP)				
	Url: https://www.sesarju.eu/sesar-solutions/initial-collaborative-network-	operations-plan-nop				
ATM Master Plan relationship:	[PRO-035]-FCM Procedures for on-line access/update to the NOP and r	notification of updates				
Finalisation criteria:	1 - The procedures are in use					
E01405 4 0 D05	Tarin the advanced as a second of the later and the wide the NOR	From:	Ву:			
FCM05-ASP05	Train the relevant personnel for interaction with the NOP	01/09/2016	01/01/2022			
Action by:	ANS Providers					
Description & purpose:	Ensure that all operational personnel concerned is adequately trained for their job functions in relation to the interaction with the rolling NOP.					
Supporting material(s):	EUROCONTROL - NOP Portal User Guide - Edition 21.5-119					
	Url: https://www.eurocontrol.int/sites/default/files/content/documents/nm/network-operations/user-guides/nop-portal-user-guide-current.pdf					
	SJU - SESAR Solution 20: Data Pack for initial collaborative Network Operations Plan (NOP)					
	Url: https://www.sesarju.eu/sesar-solutions/initial-collaborative-network-operations-plan-nop					
Finalisation criteria:	1 - Training plans covering interaction with the NOP have been develop	ed and implemented				
		From:	By:			
FCM05-APO01	Provide the required data to the Network Manager for DDR	01/09/2013	01/01/2022			
Action by:	Airport Operators		1			
Description & purpose:	Coordinated Airports to provide the Airport slots information in SSIM formula them and will transmit them to NM in a EUACA format.	mat to EUACA. From thi	s, EUACA will compile			
Supporting material(s):	IATA - Standard Schedules Information Manual - Edition 29					
.,	Url : https://www.iata.org/publications/store/Pages/standard-schedules-information.aspx					
	SJU - SESAR Solution 21: Data Pack for AOP-NOP seamless integration					
	Url: http://www.sesarju.eu/sesar-solutions/high-performing-airport-operations/airport-operations-plan-aop-and-its-					
ATM Master Plan	seamless					
relationship:	[NIMS-14b]-Demand Data Repository Phase II					
Finalisation criteria:	1 - Airport slot information provided to DDR.					
		From:	Ву:			
FCM05-APO02	Perform the integration of the AOP with the NOP	01/01/2015	01/01/2022			

FCM05	Interactive Rolling NOP

Action by:	Airport Operators					
Description & purpose:	Linking AOP with NOP (Airport Business Trajectory and User Preferred Trajectory) will contribute in optimising both Network and Airport management. This will be achieved by timely and simultaneously updating AOP and NOP, providing Network and Airport Managers with a commonly updated, consistent and accurate Plan. The AOP is therefore the tool which provides/integrates the airport information into the Network (NOP). This is done by sharing information with NOP or by requesting information from the NOP. The AO will have to ensure that AOP core information is provided to the NOP and that change in information in the AOP with anticipated impact on the network is made available to the NOP according with the appropriate agreed quality of service.					
Supporting material(s):	SJU - OFA 05.01.01 - Airport Operations Centre Definition - Operational Service and Environment Definition Part 1 - 00.03.00 / 12/2014 SJU - SESAR Solution 21: Data Pack for AOP-NOP seamless integration Url: http://www.sesarju.eu/sesar-solutions/high-performing-airport-operations/airport-operations-plan-aop-and-its-seamless					
ATM Master Plan relationship:	[AIRPORT-38]-Airport/ATFCM Extended data interface [PRO-028]-Procedures to support AOP-NOP collaborative process					
Finalisation criteria:	The relevant AOP information is made available to the NOP The relevant NOP information is integrated into the AOP					
FCM05-USE01	Provide the required data to the Network Manager for DDR	From: 01/09/2013	By: 01/01/2022			
Action by:	Airspace Users					
Description & purpose:	Airspace users to provide the scheduled flight information.					
Supporting material(s):	IATA - Standard Schedules Information Manual - Edition 29					
	Url: https://www.iata.org/publications/store/Pages/standard-schedules-i	nformation.aspx				
	SJU - SESAR Solution 20: Data Pack for initial collaborative Network O	perations Plan (NOF	P)			
	Url: https://www.sesarju.eu/sesar-solutions/initial-collaborative-network	<u>-operations-plan-no</u>	<u>o</u>			
ATM Master Plan relationship:	[NIMS-14b]-Demand Data Repository Phase II					
Finalisation criteria:	1 - Scheduled flight information is provided.					
FCM05-NM01	ADR to provide, common and consolidated view of European airspace data containing both static and dynamic digital data	From: 01/09/2013	By: 31/12/2014			
	an opaco and containing som claim alynamic anguar and					
Action by:	NM					
Action by: Description & purpose:	NM Provide, common and consolidated view of European airspace data cor - Enabling the optimization of flight planning making available the chang availability (e-AMI, e-Restrictions)	es made to the airs	pace usage & route			
	NM Provide, common and consolidated view of European airspace data cor - Enabling the optimization of flight planning making available the chang availability (e-AMI, e-Restrictions) - Improvement of data quality and interoperability through digital data ex EUROCONTROL - NM B2B Reference Manuals - access available on r	ges made to the airs	pace usage & route			
Description & purpose:	NM Provide, common and consolidated view of European airspace data cor - Enabling the optimization of flight planning making available the chang availability (e-AMI, e-Restrictions) - Improvement of data quality and interoperability through digital data ex	ges made to the airs	pace usage & route			
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FCM05	Interactive Rolling NOP

		01/09/2013	31/12/2017			
		01/00/2010	01/12/2011			
Action by:	NM					
Description & purpose:	Integrate the local/regional automated ASM support tools with the NM s	•				
Supporting material(s):	EUROCONTROL - NM B2B Reference Manuals - access available on r	equest to NM				
	Url: http://www.eurocontrol.int/articles/nm-services-and-products					
Finalisation criteria:	1 - Local/Regional automated ASM support systems using AIXM 5.1 B2B have been integrated with NM systems.					
FCM05-NM05	Upgrade NM systems to allow the access of interested users to					
	the Demand Data Repository	01/09/2013	30/09/2013			
Action by:	NM					
Description & purpose:	NM systems are updated to make the DDR (phase 2) available					
Supporting material(s):	EUROCONTROL - Demand Data Repository (DDR) project					
	Url: http://www.eurocontrol.int/services/demand-data-repository-ddr					
ATM Master Plan relationship:	[NIMS-14b]-Demand Data Repository Phase II					
Finalisation criteria:	1 - DDR Phase 2 has been made available.					
rinansation criteria.		From:	By:			
FCM05-NM06	Implement FCM Procedures for on-line access/update to the NOP and notification of updates	01/09/2013	31/12/2017			
	and notinoation of apatitos					
Action by:	NM					
Description & purpose:	Develop the necessary procedures for NOP access (incremental work, a	a set of procedures for	each yearly version)			
Supporting material(s):	EUROCONTROL - NOP Portal User Guide - Edition 21.5-119					
	Url: https://www.eurocontrol.int/sites/default/files/content/documents/nnuser-guide-current.pdf	n/network-operations/u	ser-guides/nop-portal-			
ATM Master Plan	[PRO-035]-FCM Procedures for on-line access/update to the NOP and	notification of undates				
relationship:	[FNO-055]- CWI Flocedules for on-line access/update to the NOF and h	notification of updates				
Finalisation criteria:	1 - Procedures are available					
FCM05-NM07	Upgrade NM systems to allow FMP to remote access simulation via the NOP Portal (create of simulations and assessment of the results) and in a second step to edit scenario measures (regulation, config, capacities,) prior to running simulations	From: 01/09/2013	By: 31/12/2013			
Action by:	NM	'	·			
Description & purpose:	NM systems are updated to allow FMP to remote access simulation via assessment of the results) and in a second step to edit scenario measul to running simulations					
Supporting material(s):	EUROCONTROL - NOP Portal User Guide - Edition 21.5-119					
., ,	Url: https://www.eurocontrol.int/sites/default/files/content/documents/nnuser-guide-current.pdf	n/network-operations/u	ser-guides/nop-portal-			
ATM Master Plan relationship:	[AAMS-15]-Scenario management sub-system equipped with tools to su	upport pre-tactical CDN	1			
Finalisation criteria:	1 - NM systems have been updated					
FCM05-NM08	Flight Plan filing capability directly via the NOP portal	From: 01/09/2013	By: 31/12/2014			
Action by:						
Description & purpose:	NM systems updated to provide the Airspace Users with a Flight Plan fil	lling capability through	the NOP portal.			
Supporting material(s):	EUROCONTROL - NOP Portal User Guide - Edition 21.5-119	3	- P			
oupporting material (o).	Url: https://www.eurocontrol.int/sites/default/files/content/documents/nnuser-guide-current.pdf	n/network-operations/u	ser-guides/nop-portal-			
Finalisation criteria:	1 - NM systems and NOP portal have been updated.					
FCM05-NM09	Develop AOP/NOP interfaces	From: 01/01/2015	By: 01/01/2022			
Action by:	NM					
Description & purpose:	Linking AOP with NOP will contribute in optimising both Network and A developing AOP/NOP B2C and B2B interfaces., providing NOP and AO accurate data. The NM will have to ensure that relevant information for airport operatio shared with the relevant part of the NOP.	Ps with a commonly up	odated, consistent and			

FCM05	Interactive Rolling NOP					
Supporting material(s):	SJU - OFA 05.01.01 - Airport Operations Centre Definition - Operational Service and Environment Definition Part 1 - 00.03.00 / 12/2014					
	SJU - SESAR Solution 20: Data Pack for initial collaborative Network Operations Plan (NOP)					
	Url: https://www.sesarju.eu/sesar-solutions/initial-collaborative-network-operations-plan-nop					
ATM Master Plan elationship:	[AIRPORT-38]-Airport/ATFCM Extended data interface					
inalisation criteria:	1 - Availability of AOP/NOP B2B and B2C interfaces	1 - Availability of AOP/NOP B2B and B2C interfaces				
FCM05-NM10	Integrate the AOPs into the Network Operation Plan	From: 01/01/2016 01/01/2022	By: -			
Action by:	NM					
Description & purpose:	Linking AOP with NOP will contribute in optimising both Network and Airport management. This will be achieved by timely and simultaneously updating NOP with AOPs data, providing NOP and AOPs with a commonly updated, consistent and accurate data. The AOP is therefore the tool which provides the airport information into the Network (NOP). This is done by sharing information between the NOP and the AOP. The NM will have to ensure that relevant information for airport operations, which may be contained in the AOPs, are shared with the relevant part of the NOP.					
Supporting material(s):	SJU - OFA 05.01.01 - Airport Operations Centre Definition - Operational Service and Environment Definition Part 1 - 00.03.00 / 12/2014					
	SJU - SESAR Solution 20: Data Pack for initial collaborative Network Operations Plan (NOP)					
	Url: https://www.sesarju.eu/sesar-solutions/initial-collaborative-network-operations-plan-nop					
ATM Master Plan relationship:	[AIRPORT-38]-Airport/ATFCM Extended data interface					
ciationsinp.	[PRO-028]-Procedures to support AOP-NOP collaborative process					
Finalisation criteria:	1 - Integration of relevant AOP data for a specific airport into NOP 2 - The relevant NOP information is made available to the AOP					
FCM05-NM12	Enhance the NM technical platform and services	From: 01/09/2016	By: 01/01/2022			
Action by:						
Description & purpose:	The enhancement of NM's technical platform and services will address the following: - Extension of NM interfaces with new functional capabilities - Migration of the variety of interfaces it currently provides (CHMI variants, the NOP Portal) into a single, redesigned HM for all users, fit for purpose and flexible enough to meet the needs of the different user roles (both internal and external) - system upgrades for enhanced planning process (integration of planning tool, tools to support collaborative dynamic planning, simulation tools) - enhancements of post-analysis tools and process - support the needs in terms of user interfaces for other NM projects					
Supporting material(s):	SJU - SESAR Solution 20: Data Pack for initial collaborative Network Operations Plan (NOP)					
	Url: https://www.sesarju.eu/sesar-solutions/initial-collaborative-network-operations-plan-nop					
Finalisation criteria:	1 - NM technical platform and services have been upgraded					
FCM05-NM13	Implement ATFCM procedures	From: 01/09/2016	By: 01/01/2022			
Action by:	NM					
Description & purpose:	The SLoA addresses the definition, validation and deployment of the new/changed operational procedures pertinent to the NM system changes, including FCM procedures for redesigned NM HMI as well as procedures related to post OPS analysis process.					
Supporting material(s):	EUROCONTROL - NOP Portal User Guide - Edition 21.5-119					
,,	Url: https://www.eurocontrol.int/sites/default/files/content/documents/nm/network-operations/user-guides/nop-portal-user-guide-current.pdf					
	SJU - SESAR Solution 20: Data Pack for initial collaborative Network Operations Plan (NOP)					
	Url: https://www.sesarju.eu/sesar-solutions/initial-collaborative-network-operations-plan-nop					
ATM Master Plan	[PRO-035]-FCM Procedures for on-line access/update to the NOP and notification of updates					
relationship:		<u> </u>				