FCM05 — Interactive Rolling NOP

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.

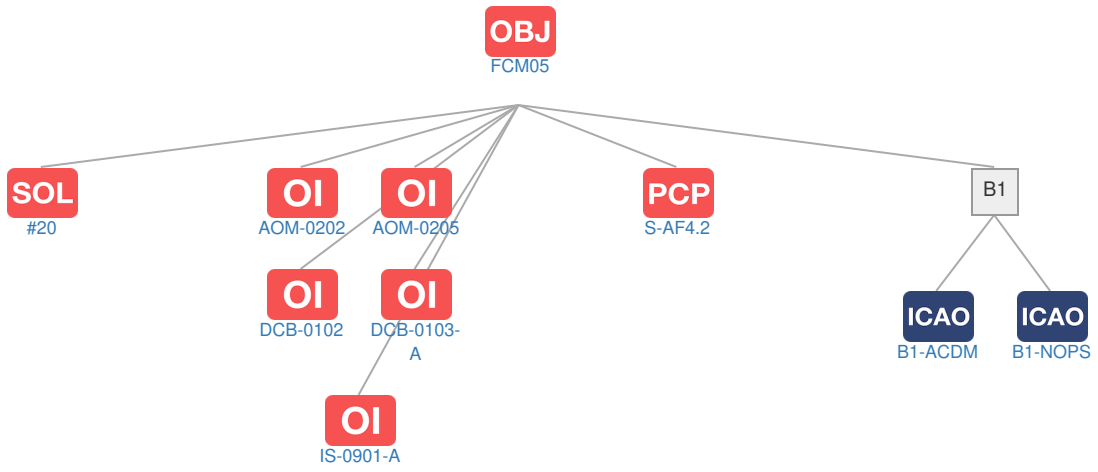
NOTE FOR MILITARY AUTHORITIES: It is the responsibility of each military authority to review this Objective IN ITS ENTIRETY and address each of the SLoAs that the military authority considers RELEVANT for itself. This has to be done on top and above of the review of "MIL" SLoAs which identify actions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

Edition	2022
Stakeholders	Air Navigation Service Provider / Airport Operator / Airspace Users / Network Manager
Type	PCP
Scope	ECAC+
Status	Removed

Context

Related Elements



Applicability Area(s) and Timescales

Applicability Area: All ECAC States except: Armenia, Luxembourg, Moldova, North Macedonia. Plus: Israel

Timescales	From	By	Applicable to
Initial operational capability	01-09-2013	-	Applicability Area
Full operational capability	-	01-01-2022	Applicability Area

Links to ATM Master Plan Level 2

OI Operational Improvment Steps

Code	Title	IOC	FOC	Related Elements
AOM-0202	Enhanced Real-time Civil-Military Coordination of Airspace Utilisation	31-12-2019	31-12-2023	OI EN OBJ ICAO
AOM-0205	Modular Temporary Airspace Structures and Reserved Areas	31-12-2008	31-12-2012	OI EN OBJ ICAO
DCB-0102	Interactive Rolling NOP	31-12-2009	31-12-2013	OI EN OBJ ICAO
DCB-0103-A	Initial collaborative NOP	01-07-2022	01-07-2027	SOL OI EN OBJ DS PCP ICAO
IS-0901-A	SWIM for sharing G/G data, traffic flow management information and aeronautical information	31-12-2023	31-12-2029	SOL OI EN OBJ DS PCP ICAO

SOL Links to SESAR Solutions

Code	Title	Program	Related Elements
#20	Collaborative NOP for Step 1	SESAR1	SOL OI OBJ DS EOC PCP ICAO

PCP Links to PCP ATM Sub-Functionalities

Code	Title	Related Elements
S-AF4.2	Collaborative NOP	SOL OI EN OBJ ICAO

ICAO Block Modules

Designator	Title	Related Elements
B1		
B1-ACDM	Optimized Airport Operations through A-CDM Total Airport Management	SOL OI OBJ PCP
B1-NOPS	Enhanced Flow Performance through Network Operational Planning	SOL OI OBJ PCP

References

Applicable legislation
Regulation (EU) No 716/2014 on the establishment of the Pilot Common Project
Applicable ICAO Annexes and other references
None
Deployment Programme 2022
-
Operating Environments
Airport
Terminal Airspace
En-Route
Network

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	-

Stakeholder Lines of Action

Code	Title	From	By	Related Enablers
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		
ASP01	Upgrade the automated ASM support system with the capability of AIXM 5.1 B2B data exchange with NM	DELETED		EN
ASP02	Perform an integration of the automated ASM support systems with the Network	DELETED		
ASP03	Produce a safety assessment on the upgrade of automated ASM support systems to the AIXM 5.1 capability	DELETED		EN
ASP04	Develop and implement ATFCM procedures for interaction with the NOP	01-09-2016	01-01-2022	EN
ASP05	Train the relevant personnel for interaction with the NOP	01-09-2016	01-01-2022	
APO01	Provide the required data to the Network Manager for DDR	FINALISED		EN
APO02	Perform the integration of the AOP with the NOP	01-01-2015	01-01-2022	EN
USE01	Provide the required data to the Network Manager for DDR	FINALISED		EN
NM01	ADR to provide, common and consolidated view of European airspace data containing both static and dynamic digital data	FINALISED		EN
NM02	Upgrade NM system for external user access to the airspace data repository (making restrictions available in AIXM 5.1 format via B2B)	FINALISED		EN
NM03	Equip Airspace management system with tools for collection of airspace data (Interoperability with ASM tools in AIXM 5.1)	FINALISED		
NM04	Perform an integration of ASM support systems with the Network	FINALISED		
NM05	Upgrade NM systems to allow the access of interested users to the Demand Data Repository	FINALISED		EN
NM06	Implement FCM Procedures for on-line access/update to the NOP and notification of updates	FINALISED		EN
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		EN
NM08	Flight Plan filing capability directly via the NOP portal	FINALISED		
NM09	Develop AOP/NOP interfaces	FINALISED		EN
NM10	Integrate the AOPs into the Network Operation Plan	01-01-2016 01-01-2022		EN
NM11	Develop Network Manager B2B services	DELETED		EN
NM12	Enhance the NM technical platform and services	01-09-2016	01-01-2022	
NM13	Implement ATFCM procedures	01-09-2016	01-01-2022	EN

Supporting Material

Title	Related SLoAs
EUROCONTROL - NOP Portal User Guide - Edition 21.5-119 https://www.eurocontrol.int/sites/default/files/content/documents/nm/network-operations/user-guides/nop-portal-user-guide-current.pdf	ASP04, ASP05, NM13
SJU - OFA 05.01.01 - Airport Operations Centre Definition - Operational Service and Environment Definition Part 1 - 00.03.00 / 12/2014 -	APO02, NM10
SJU - SESAR Solution 20: Data Pack for initial collaborative Network Operations Plan (NOP) https://www.sesarju.eu/sesar-solutions/initial-collaborative-network-operations-plan-nop	ASP04, ASP05, NM10, NM12, NM13
SJU - SESAR Solution 21: Data Pack for AOP-NOP seamless integration http://www.sesarju.eu/sesar-solutions/high-performing-airport-operations/airport-operations-plan-aop-and-its-seamless	APO02

Consultation & Approval

Working Arrangement in charge	NETOPS
Outline description approved in	03/2013
Latest objective review at expert level	05/2013
Commitment Decision Body	Provisional Council (PC)
Objective approved/endorsed in	07/2013
Latest change to objective approved/endorsed in	09/2016