# FCM11.2 — AOP/NOP integration

As part of the evolution of processes and procedures, new data elements will be shared and also negotiated between AOP and NOP. These will have to be integrated in addition to the information that is shared in the iAOP-NOP exchange. The processes, procedures and underlying concepts for the creation and integration will have to be agreed upon and/or adapted.

This will apply to arrival planning information (e.g. TTO/TTA via API), as well as departure information (e.g. P-DPI based on airport capacity information), and also enhanced management of capacities (e.g. diversion capabilities).

System requirements:

The Network Manager shall implement an increased integration of NOP and Airport Operations Plan (AOP) relevant information (for example, TTAs) resulting from a Cooperative Decision-Making Process (ref. Article 2.14 of the EC Regulation of the Network Function).

The AOP shall make available in real time to the NOP data that is appropriate and relevant to inform actions by Network Manager to adjust capacity in the network where appropriate. Such data shall be mutually agreed by the Network Manager and the Airport.

For airports with AOP, the NM shall share with the AOP the arrival demand and establish a collaborative decision-making process at local ATFM level to allow amendments to the TTAs based on the AOP.

AOP system requirements:

• The AOP systems must consume and process the flight updates published by NM via the NM B2B Services;
• The AOP systems must provide to NM the Extended Departure Planning Information via the NM B2B Services;
• The AOP systems must provide to NM the Arrival Planning Information via the NM B2B Services;
• If bilaterally agreed between NM and concerned airports and defined in respective ICD, the AOP systems should be capable of providing additional airport information (runway configurations, airport performance measurement) to NM.

NM system requirements:

• The NM system must be upgraded to process the information provided by the AOP system concerning the Extended DPI and API;
• The NM system must provide the flight updates information necessary to the AOP systems;
• If bilaterally agreed between NM and concerned airports and defined in respective ICD, the NM systems must be capable of integrating additional airport information (runway configurations, airport performance measurement).

*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.*

| | |
|---|---|
| **Edition** | 2022 |
| **Stakeholders** | Air Navigation Service Provider / Airport Operator / Network Manager |
| **Type** | CP1 |
| **Scope** | Airport |
| **Status** | Active |

## Context

### Related Elements



OBJ
FCM11.2

OI
Operational
Improvement
Steps

## Applicability Area(s) and Timescales

| | |
|---|---|
| **Applicability Area 1:** | See list of airports in MP Level 3 Implementation Plan - Annexes *(30 CP1 airports)* |
| **Applicability Area 2 (non-CP1 Airports):** | See list of airports in MP Level 3 Implementation Plan - Annexes *(Non-CP1 Airports)* |

| Timescales | From | By | Applicable to |
|---|---|---|---|
| Initial Operational Capability | 01-01-2021 | - | Applicability Area 1 + Applicability Area 2 (non-CP1 Airports) |
| Full Operational Capability / Target Date | - | 31-12-2027 | Applicability Area 1 + Applicability Area 2 (non-CP1 Airports) |

## Links to ATM Master Plan Level 2

### **OI** Operational Improvment Steps

| Code | Title | IOC | FOC | Related Elements |
|---|---|---|---|---|
| AO-0801-A | Collaborative Airport Planning Interface | 31-12-2020 | 31-12-2025 | SOL OI EN OBJ DS PCP ICAO 🔤 |
| AO-0802-A | A-CDM process enhanced through integration of landside (passenger only) process outputs | 31-12-2023 | 31-12-2027 | SOL OI EN DS ICAO |
| AO-0803 | Integration of Airports into ATM through Monitoring of Airport Transit View (Extension of Performance Monitoring building on A-CDM) | 31-12-2022 | 31-12-2026 | SOL OI EN DS ICAO |
| DCB-0103-A | Initial collaborative NOP | 01-07-2022 | 01-07-2027 | SOL OI EN OBJ DS PCP ICAO 🔤 |
| DCB-0208 | DCB in a trajectory management context | 31-12-2026 | 31-12-2032 | SOL OI EN OBJ DS PCP ICAO 🔤 |
| DCB-0310 | Improved Efficiency in the Management of Airport and ATFCM Planning | 31-12-2021 | 31-12-2025 | SOL OI EN DS ICAO 🔤 |

## **SOL** Links to SESAR Solutions

| Code | Title | Program | Related Elements |
|---|---|---|---|
| No record found | | | |

## **PCP** Links to PCP ATM Sub-Functionalities

| Code | Title | Related Elements |
|---|---|---|
| No record found | | |

## **ICAO** ICAO Block Modules: No associated data

## References

**Applicable legislation**
Regulation (EU) 2021/116 on the establishment of the Common Project One
**Applicable ICAO Annexes and other references**
None
**Deployment Programme 2022**
Family 4.4.1 - AOP/NOP Integration
**Operating Environments**
-

## Expected Performance Benefits

| | |
|---|---|
| **Safety** | Improved situational awareness. |
| **Capacity** | Increased capacity. Enhanced safety. Improved airport resilience/limiting capacity reduction in degraded situations. |
| **Operational efficiency** | - |
| **Cost efficiency** | Improved information sharing. Enhanced predictability. |
| **Environment** | - |
| **Security** | - |

## Stakeholder Lines of Action

| Code | Title | From | By | Related Enablers |
|---|---|---|---|---|
| ASP01 | Define AOP/NOP integration data and procedures | 01-01-2021 | 31-12-2027 | |
| APO01 | Define AOP/NOP integration data and procedures | 01-01-2021 | 31-12-2027 | |
| APO02 | Prepare AOP for the exchange with NOP | 01-01-2021 | 31-12-2027 | |
| APO03 | Safety assessment | 01-01-2021 | 31-12-2027 | |
| APO04 | Training | 01-01-2021 | 31-12-2027 | |
| APO05 | Operational use | 01-01-2021 | 31-12-2027 | |
| NM01 | Define AOP/NOP integration data and procedures | 01-01-2021 | 31-12-2027 | |
| NM02 | Prepare NOP for integration with AOPs | 01-01-2021 | 31-12-2027 | |
| NM03 | Safety assessment | 01-01-2021 | 31-12-2027 | |
| NM04 | Training | 01-01-2021 | 31-12-2027 | |
| NM05 | Operational use | 01-01-2021 | 31-12-2027 | |

## Supporting Material

| Title | Related SLoAs |
|---|---|
| SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 https://www.sesardeploymentmanager.eu/publications/deployment-programme | APO01, APO02, APO03, APO04, APO05, ASP01, NM01, NM02, NM03, NM04, NM05 |

## Consultation & Approval

|   |   |
|---|---|
| **Working Arrangement in charge** | - |
| **Outline description approved in** | - |
| **Latest objective review at expert level** | - |
| **Commitment Decision Body** | - |
| **Objective approved/endorsed in** | - |
| **Latest change to objective approved/endorsed in** | - |

**Source:** European ATM Portal - **Report produced:** 03-05-2024 - **Date refresh:** 28-09-2023

**EATMA data version:** EATMA V12.1 - **ATM Master Plan data set version:** Dataset 19 Public - **MP L3 Edition:** MP L3 Plan 2022

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