



# FCM04.2 — Enhanced Short Term ATFCM Measures

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ATFCM is coordinated at network level by the Network Manager and at local level by the flow management position to support hot-spot detection, execution of Short-Term ATFCM Measures (STAM), network assessment and continuous monitoring of network activity. STAM is established requiring coordination between Air Traffic Control, Airport, Airspace Users and Network Manager.

Tactical capacity management using STAM shall ensure a close and efficient coordination between ATC and the network management function. Tactical capacity management shall implement STAM using cooperative decision-making to manage flow before flights enter a sector.

Additional tasks relevant to the STAM scope should encompass:

- utilisation of approved STAM concept of operations;
- development of operational guidance documentation;
- development of training package;
- development of harmonized operational procedures.

ANSP, AU and airport will apply harmonized operational procedures, taking into account the STAM prerequisites such as the traffic information and flight predictability.

Airspace Users should at minimum update their flight plans, manage the slot and the mandatory rerouting, but could also provide simple priorities, participate to CDM process, manage rerouting proposal.

System requirements:

NM systems shall implement the STAM functionalities and shall support the coordination of STAM measures implementation, including Network Impact assessment capabilities.

The STAM tool should include occupancy traffic monitoring values (OTMV), hotspot detection and coordination. The enhancements should mainly focus on:

- enhanced monitoring techniques (including hotspot management and complexity indicators);
- coordination systems (including interfaces with local tools);
- what-if function (local measures, flight-based, flow-based and multiple measure alternative);
- network impact assessment.

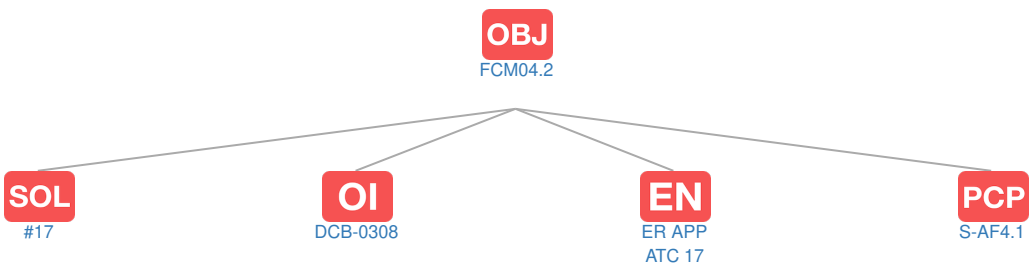
ANSP and AU shall use either the NM-provided STAM application or may deploy local tools, which shall interact with the NM systems using SWIM services, when and where available, at the latest by December 2025.

*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 / Airspace Users / Network Manager
Type	CP1
Scope	ECAC+
Status	Active

## Context

### Related Elements




## Applicability Area(s) and Timescales

<b>Applicability Area 1:</b>	All EU SES States (All EU SES States)
<b>Applicability Area 2:</b>	Albania, Bosnia and Herzegovina, Montenegro, North Macedonia, Serbia, Türkiye, United Kingdom

Timescales	From	By	Applicable to
Initial operational capability	01-11-2017	-	Applicability Area 1 + Applicability Area 2
Full Operational Capability / Target Date	-	31-12-2022	Applicability Area 1 + Applicability Area 2

## Links to ATM Master Plan Level 2

### **OI** Operational Improvement Steps

Code	Title	IOC	FOC	Related Elements
DCB-0308	Advanced Short Term ATFCM	31-12-2020	01-10-2025	<b>SOL</b> <b>OI</b> <b>EN</b> <b>OBJ</b> <b>DS</b> <b>PCP</b> <b>ICAO</b> 

### **EN** Enablers

Code	Title	IOC	Related Elements
ER APP ATC 17	Enhance Traffic and Flow Management sub-systems to support dynamic flow management in co-ordination with local, regional, and European levels.	31-12-2019	<b>STK</b> <b>OI</b> <b>OBJ</b> <b>DS</b> <b>PCP</b>

### **SOL** Links to SESAR Solutions

Code	Title	Program	Related Elements
#17	Advanced Short-Term ATFCM Measures (STAM)	SESAR1	<b>SOL</b> <b>OI</b> <b>OBJ</b> <b>DS</b> <b>EOC</b> <b>PCP</b> <b>ICAO</b>

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

Code	Title	Related Elements
S-AF4.1	Enhanced Short Term ATFCM Measures	<b>SOL</b> <b>OI</b> <b>EN</b> <b>OBJ</b> <b>ICAO</b>

**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 4.1.1 - Enhanced Short Term ATFCM Measures

### Operating Environments

En-Route

Network

## Expected Performance Benefits

<b>Safety</b>	Improved situational awareness of the European network.
<b>Capacity</b>	Better use of airspace capacity in terminal and enroute airspace.
<b>Operational efficiency</b>	-
<b>Cost efficiency</b>	Increased cost efficiency.
<b>Environment</b>	Better use of airspace capacity in terminal and enroute airspace.
<b>Security</b>	-

## Stakeholder Lines of Action

Code	Title	From	By	Related Enablers
ASP01	Develop STAM procedure	01-11-2017	31-12-2022	EN
ASP02	Upgrade and use the local systems	01-11-2017	31-12-2022	EN
ASP03	Use of NM STAM application	01-11-2017	31-12-2022	
ASP04	Safety assessment	01-11-2017	31-12-2022	
ASP05	Training	01-11-2017	31-12-2022	EN
ASP06	Operational use	01-11-2017	31-12-2022	EN
USE01	Follow the validity of the flight plan and ATFM slot vs STAM measure	01-11-2017	31-12-2022	
NM01	Develop STAM procedures and upgrade the local systems	01-11-2017	31-12-2022	
NM02	Provide interface between NM and local tool	01-11-2017	31-12-2022	
NM03	Safety assessment	01-11-2017	31-12-2022	
NM04	Training	01-11-2017	31-12-2022	
NM05	Operational use	01-11-2017	31-12-2022	

## Supporting Material

Title	Related SLoAs
SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a>	ASP01, ASP02, ASP03, ASP04, ASP05, ASP06, NM01, NM02, NM03, NM04, NM05, USE01

## Consultation & Approval

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