

# FCM06 — Traffic Complexity Assessment

The traffic load management tool addressed by SESAR OI step CM-0101 (Automatic support for traffic load density management) is the predecessor of traffic complexity tools. The traffic complexity tools continuously monitor sector demand and evaluate traffic complexity (by applying predefined complexity metrics) according to a predetermined qualitative scale. The predicted complexity coupled with traffic demand enables ATFCM to take timely action to adjust capacity, or request the traffic profile changes in coordination with ATC and airspace users.

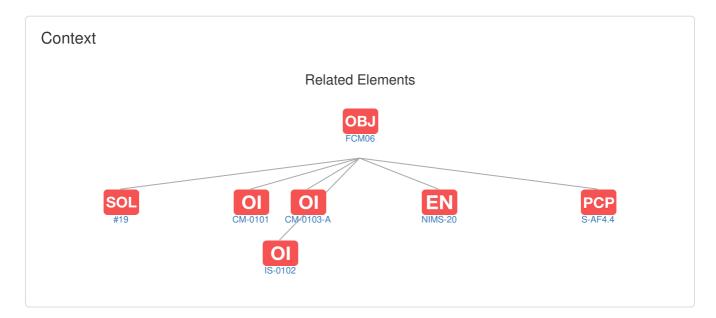
The rigid application of ATFCM regulations based on standard capacity thresholds as the pre-dominant tactical capacity measure needs to be replaced by a close working relationship between ANSPs and Network Manager, which would monitor both the real demand, the effective capacity of sectors having taken into account the complexity of expected traffic situation.

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 / Network Manager

Type PCP
Scope ECAC+
Status Removed



# Applicability Area(s) and Timescales

Applicability Area 1: All EU SES States except: Luxembourg, Malta. Plus: United Kingdom

Applicability Area 2: Albania, Armenia, Azerbaijan, Bosnia and Herzegovina, Georgia, Israel, Moldova,

Montenegro, North Macedonia, Serbia, Türkiye, Ukraine

Timescales	From	Ву	Applicable to
Initial operational capability	01-01-2015	-	Applicability Area 1
Full operational capability	-	01-01-2022	Applicability Area 1 + Applicability Area 2

Source: European ATM Portal - Report produced: 19-04-2024 - 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

#### Links to ATM Master Plan Level 2 Operational Improvment Steps Code IOC FOC **Related Elements** CM-0101 Automated Support for Traffic Load (Density) OI EN OBJ ICAO CM-0103-A Automated Support for Traffic Complexity Assessment 31-12-2020 01-10-2025 SOL OI EN DS PCP ICAO IS-0102 Improved Management of Flight Plan After Departure 31-12-2011 31-12-2015 EN OBJ ICAO **EN** Enablers Title IOC **Related Elements** Code 31-12-2011

SOL Links to SESAR Solutions			
Code	Title	Program	Related Elements
#19	Automated support for Traffic Complexity Detecti Resolution	on and SESAR1	SOL OI OBJ DS EOC PCP ICAO

Provision, reception and processing of ATFCM flight progress

PCP Links to PCP ATM Sub-Funct	ionalities	
Code	Title	Related Elements
S-AF4.4	Automated Support for Traffic Complexity Assessment	SOL OI EN OBJ

ICAO Block Modules: No associated data

#### References

NIMS-20

#### Applicable legislation

Regulation (EU) No 677/2011 laying down detailed rules for the implementation of air traffic management (ATM) network functions and amending Regulation (EU) No 691/2010

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** 

Terminal Airspace En-Route

Network

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STK OI OBJ

## **Expected Performance Benefits**

Safety The better ATCO workload predictability via deployment of the traffic complexity

assessment tool will lead to safety gains. Enhancement also through reduction in

controller workload.

Capacity Increased through the better resource utilisation to enhance productivity and

reduce controller workload.

CO2 emissions.

Cost efficiency

**Environment** Reductions in emissions through use of more optimal routes.

Security

# Stakeholder Lines of Action

Code	Title	From	Ву	Related Enablers
ASP01	Implement Local Traffic Load Management tool	01-01-2015	01-01-2022	EN
ASP02	Receive, process and integrate ETFMS Flight Data (EFD)	01-01-2015	01-01-2022	EN
ASP03	Implement Local Traffic Complexity tools and procedures	01-01-2018	01-01-2022	EN
NM01	Provide EFD to the local traffic complexity tools	01-01-2015	01-01-2022	EN
NM02	Improved trajectory in NM systems	01-01-2015	01-01-2022	EN
NM03	Network Traffic Complexity Assessment	01-01-2015	01-01-2022	EN

## Supporting Material

Title	Related SLoAs
EUROCONTROL - Flight Progress Messages (FPM) document - 2.501 / 03/2019 https://www.eurocontrol.int/publication/flight-progress-messages-fpm-document	ASP02, NM01
SJU - SESAR Solution 19: Data Pack for automated support for traffic complexity detection and resolution  https://www.sesarju.eu/sesar-solutions/automated-support-traffic-complexity-detection-and-resolution	ASP02, ASP03, NM01, NM02, NM03

## Consultation & Approval

Working Arrangement in charge NETOPS

Outline description approved in -

Latest objective review at expert level

Commitment Decision Body Provisional Council (PC)

Objective approved/endorsed in 10/2015

Latest change to objective approved/endorsed in 10/2015

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