

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.

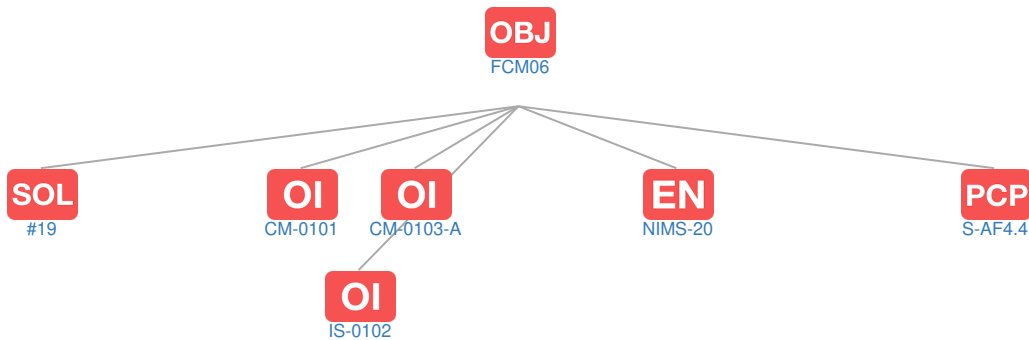
The rigid application of ATFCM regulations based on standard capacity thresholds as the pre-dominant tactical capacity measure needs to be replaced by a close working relationship between ANSPs and Network Manager, which would monitor both the real demand, the effective capacity of sectors having taken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

<b>Edition</b>	2022
<b>Stakeholders</b>	Air Navigation Service Provider / Network Manager
<b>Type</b>	PCP
<b>Scope</b>	ECAC+
<b>Status</b>	Removed

## Context

### Related Elements



## Applicability Area(s) and Timescales

<b>Applicability Area 1:</b>	All EU SES States except: Luxembourg, Malta. Plus: United Kingdom
<b>Applicability Area 2:</b>	Albania, Armenia, Azerbaijan, Bosnia and Herzegovina, Georgia, Israel, Moldova, Montenegro, North Macedonia, Serbia, Türkiye, Ukraine

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

## Links to ATM Master Plan Level 2

### **OI** Operational Improvement Steps

Code	Title	IOC	FOC	Related Elements
CM-0101	Automated Support for Traffic Load (Density) Management	-	-	<b>OI</b> <b>EN</b> <b>OBJ</b> <b>ICAO</b>
CM-0103-A	Automated Support for Traffic Complexity Assessment	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>
IS-0102	Improved Management of Flight Plan After Departure	31-12-2011	31-12-2015	<b>EN</b> <b>OBJ</b> <b>ICAO</b>

### **EN** Enablers

Code	Title	IOC	Related Elements
NIMS-20	Provision, reception and processing of ATFCM flight progress messages	31-12-2011	<b>STK</b> <b>OI</b> <b>OBJ</b>

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

Code	Title	Program	Related Elements
#19	Automated support for Traffic Complexity Detection and Resolution	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-AF4.4	Automated Support for Traffic Complexity Assessment	<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) 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

## Expected Performance Benefits

<b>Safety</b>	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.
<b>Capacity</b>	Increased through the better resource utilisation to enhance productivity and reduce controller workload.
<b>Operational efficiency</b>	Increased through use of more optimal routes leading to fuel saving and lower CO2 emissions.
<b>Cost efficiency</b>	-
<b>Environment</b>	Reductions in emissions through use of more optimal routes.
<b>Security</b>	-

## Stakeholder Lines of Action

Code	Title	From	By	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 <a href="https://www.eurocontrol.int/publication/flight-progress-messages-fpm-document">https://www.eurocontrol.int/publication/flight-progress-messages-fpm-document</a>	ASP02, NM01
SJU - SESAR Solution 19: Data Pack for automated support for traffic complexity detection and resolution <a href="https://www.sesarju.eu/sesar-solutions/automated-support-traffic-complexity-detection-and-resolution">https://www.sesarju.eu/sesar-solutions/automated-support-traffic-complexity-detection-and-resolution</a>	ASP02, ASP03, NM01, NM02, NM03

## Consultation & Approval

<b>Working Arrangement in charge</b>	NETOPS
<b>Outline description approved in</b>	-
<b>Latest objective review at expert level</b>	-
<b>Commitment Decision Body</b>	Provisional Council (PC)
<b>Objective approved/endorsed in</b>	10/2015
<b>Latest change to objective approved/endorsed in</b>	10/2015

