

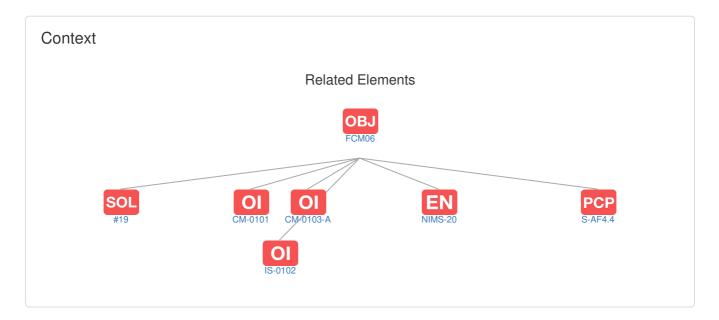
FCM06 — Traffic Complexity Assessment

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
Туре	PCP
Scope	ECAC+
Status	Removed



	Applicability Area 1: Applicability Area 2:	· · · · · · · · · · · · · · · · · · ·	
Timescales	From	Ву	Applicable to
	01-01-2015	-	Applicability Area 1
Initial operational capability	01 01 2010		

Links to ATM Master Plan Level 2

Operational Improvment Steps Code Title IOC FOC **Related Elements** Automated Support for Traffic Load (Density) Management CM-0101 OI EN OBJ ICAO _ CM-0103-A Automated Support for Traffic Complexity Assessment 31-12-2020 01-10-2025 SOL OI EN OBJ 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 NIMS-20 Provision, reception and processing of ATFCM flight progress STK OI OBJ messages

sol Links	to SESAR Solutions		
Code	Title	Program	Related Elements
#19	Automated support for Traffic Cor Resolution	nplexity Detection and SESAR1	SOL OI OBJ DS EOC PCP ICAO

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

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

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.
Operational efficiency	Increased through use of more optimal routes leading to fuel saving and lower 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