



# FCM07 — Calculated Take-off Time (CTOT) to Target Times for ATFCM Purposes

Target times (TT) shall be applied to selected flights for ATFCM purposes to manage ATFCM at the point of congestion rather than only at departure. Where available, the target times of arrival (TTA) shall be derived from the Airport Operations Plan (AOP). TTAs shall be used to support airport arrival sequencing processes in the en-route phase.

NM's systems shall be able to adjust CTOTs based on refined and agreed TTAs at the destination airport; TTAs shall be integrated into the AOP for subsequent refinement of the NOP.

Flight data processing systems may need to be adapted in order to process downlinked trajectory data (ADS-C EPP).

In a first step, NM system will transmit calculated target times (TT) at the most penalising regulation reference point in addition to calculated take-off times (CTOT) to all concerned users of CTOT. Those users should be able to manage this new feature and potential system upgrades should be foreseen

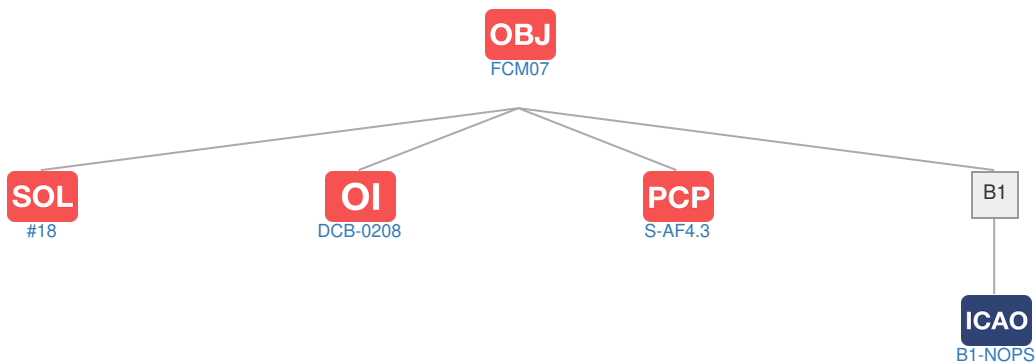
*NOTE: This is an "Initial" objective to provide advance notice to stakeholders. Some aspects of the objective require further validation.*

*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 / Airport Operator / Airspace Users / Network Manager
<b>Type</b>	PCP
<b>Scope</b>	EU+
<b>Status</b>	Removed

## Context

### Related Elements






## Applicability Area(s) and Timescales

**Applicability Area:** All ECAC States except: Armenia, Azerbaijan, Türkiye, Ukraine








Timescales	From	By	Applicable to
Initial operational capability	01-01-2017	-	Applicability Area
Full operational capability	-	01-01-2022	Applicability Area

## Links to ATM Master Plan Level 2






### Operational Improvement Steps

Code	Title	IOC	FOC	Related Elements
DCB-0208	<a href="#">DCB in a trajectory management context</a>	31-12-2026	31-12-2032	       





### Links to SESAR Solutions

Code	Title	Program	Related Elements
#18	<a href="#">CTOT and TTA</a>	SESAR1	      

### Links to PCP ATM Sub-Functionalities

Code	Title	Related Elements
S-AF4.3	<a href="#">CTOT to TTA for ATFCM</a>	    

### ICAO Block Modules

Designator	Title	Related Elements
B1		
B1-NOPS	<a href="#">Enhanced Flow Performance through Network Operational Planning</a>	   

## References

#### Applicable legislation

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>	-
<b>Capacity</b>	The involvement in TT generation of local actors has a positive impact on capacity and delay reduction.
<b>Operational efficiency</b>	Reduced flight time in TMA leading to an optimised flight arrival management in the TMA. Reduction of holdings along with radar vectoring, with positive impact on fuel burn.
<b>Cost efficiency</b>	-
<b>Environment</b>	-
<b>Security</b>	-

## Stakeholder Lines of Action

Code	Title	From	By	Related Enablers
ASP01	Adapt ATM/ATFCM systems to enable the Target Times extraction and presentation to relevant operational personnel	01-01-2017	01-01-2022	
ASP02	Implement procedures and processes in support of Target Time sharing	01-01-2017	01-01-2022	
ASP03	Adapt systems to support Calculated Take-off Time to Target Times for ATFCM purposes	01-01-2019	01-01-2022	EN
ASP04	Implement procedures and processes in support of Calculated Take-off Time to Target Times for ATFCM purposes	01-01-2019	01-01-2022	
APO01	Adapt airport systems, as required, to support reconciled target times for ATFCM and arrival sequencing	01-01-2019	01-01-2022	
APO02	Implement procedures and processes in support of Calculated Take-off Time to Target Times for ATFCM purposes	01-01-2019	01-01-2022	
USE01	Adapt systems at airspace users' operations centers to enable Target Times extraction and distribution	01-01-2017	01-01-2022	EN
USE02	Implement procedures and processes to adhere to TTs, to the extent possible	01-01-2017	01-01-2022	
USE03	Adapt systems to support Calculated Take-off Time to Target Times for ATFCM purposes	01-01-2019	01-01-2022	EN
USE04	Implement procedures and processes in support of Calculated Take-off Time to Target Times for ATFCM purposes	01-01-2019	01-01-2022	
NM01	Adapt NM systems to support Target Time sharing	01-01-2017	01-01-2022	EN
NM02	Adapt systems to support Calculated Take-off Time to Target Times for ATFCM purposes	01-01-2019	01-01-2022	EN
NM03	Implement procedures and processes in support of Calculated Take-off Time to Target Times for ATFCM purposes	01-01-2019	01-01-2022	

## Supporting Material

Title	Related SLoAs
EUROCONTROL - ATFCM Users Manual - Edition 20.0 <a href="https://www.eurocontrol.int/publication/atfcm-users-manual">https://www.eurocontrol.int/publication/atfcm-users-manual</a>	ASP01, ASP02, NM01, USE01, USE02

## 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>	-