ATC07.1 — AMAN Tools and Procedures

Implement basic arrival manager (AMAN) tools to improve sequencing and metering of arrival aircraft in selected TMAs and airports.

The AMAN tools interact with several systems, including the host flight data processing system (FDPS) and surveillance data processing system (SDPS) resulting in a 'planned' time for any individual flight.

Since the AMAN has certain conditions it needs to satisfy (such as the required landing rate, or spacing, on the runway), when 2 or more aircraft are predicted at or around the same time on the runway it plans a sequence, generating new 'required' times that need to be applied to the flight(s), in order to create/maintain the sequence.

AMAN also outputs the required time for the ATCO in the form of 'Time To Lose (TTL)/Time To Gain (TTG)' information. The controller is then responsible for finding and applying an appropriate method (vectoring, path stretching, speed changes or holding) for the aircraft to meet its time or position in the sequence.

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	2019
Stakeholders	Air Navigation Service Provider
Type	SESAR
Scope	Airport
Status	Active

Context

Related Elements

OBJ
ATC07.1

Applicability Area(s) and Timescales

Applicability Area 1 (PCP airports): See list of airports in MP Level 3 Implementation Plan - Annexes *(TMAs serving the listed airports)*

Applicability Area 2 (Non-PCP airports): See list of airports in MP Level 3 Implementation Plan - Annexes *(TMAs serving the listed airports)*

Timescales	From	By	Applicable to
Initial operational capability	01-01-2007	-	Applicability Area 1 (PCP airports) + Applicability Area 2 (Non-PCP airports)
Full operational capability	-	31-12-2019	Applicability Area 1 (PCP airports) + Applicability Area 2 (Non-PCP airports)

Links to ATM Master Plan Level 2

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SOL Links to SESAR Solutions

Code	Title	Program	Related Elements
No record found			

PCP Links to PCP ATM Sub-Functionalities

Code	Title	Related Elements
No record found		

ICAO Block Modules: No associated data

References

Applicable legislation
None
Applicable ICAO Annexes and other references
None
Deployment Programme 2019
Family 1.1.1 - Basic AMAN
Operating Environments
-

Expected Performance Benefits

Safety	Maintain or improved.
Capacity	Improved airport/TMA capacity and reduced delays.
Operational efficiency	Optimised arrival sequencing produces a positive effect on fuel burn.
Cost efficiency	-
Environment	Reduced holding and low level vectoring has a positive environmental effect in terms of noise and CO2 emissions.
Security	-

Stakeholder Lines of Action

Code	Title	From	By	Related Enablers
ASP01	Implement initial basic arrival management tools	01-01-2007	31-12-2019	
ASP02	Implement initial basic AMAN procedures	01-01-2007	31-12-2019	
ASP03	Adapt TMA organisation to accommodate use of basic AMAN	01-01-2007	31-12-2019	
ASP04	Adapt ground ATC systems to support basic AMAN functions	01-01-2007	31-12-2019	

Supporting Material

Title	Related SLoAs
EUROCONTROL - Arrival Manager - Implementation Guidelines and Lessons Learned Edition 0.1 12/2010 -	ASP01, ASP02, ASP03, ASP04
EUROCONTROL - Operational Requirements for EATCHIP Phase III ATM Added functions - Volume 3: Arrival Manager, Functional Specifications for Arrival Manager - Edition 2.0 / 01/1999 -	ASP01, ASP02, ASP03, ASP04

Consultation & Approval

Working Arrangement in charge	NETOPS
Outline description approved in	-
Latest objective review at expert level	05/2016
Commitment Decision Body	Provisional Council (PC)
Objective approved/endorsed in	07/2000
Latest change to objective approved/endorsed in	09/2016