



ATC07.1 — AMAN Tools and Procedures

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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.

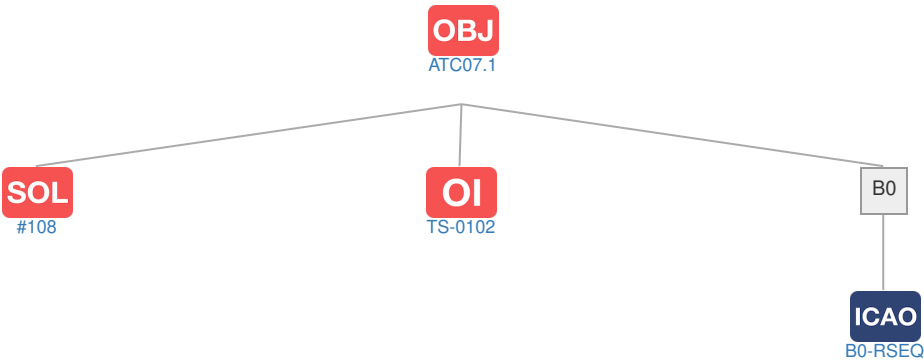
AMAN also outputs the required time for the ATCO in the form of 'Time To Lose (TTL)/Time To Gain (TTG)' information. The controller is then responsible for finding and applying an appropriate method (vectoring, path stretching, speed changes or holding) for the aircraft to meet its time or position in 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 | 2022 |
| Stakeholders | Air Navigation Service Provider |
| Type | SESAR |
| Scope | Airport |
| Status | Active |

Context

Related Elements









Applicability Area(s) and Timescales

| | |
|---------------------|---|
| Applicability Area: | 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 |
| Full operational capability | - | 31-12-2019 | Applicability Area |

Links to ATM Master Plan Level 2

Operational Improvement Steps

| Code | Title | IOC | FOC | Related Elements |
|---------|--|------------|------------|--|
| TS-0102 | Basic Arrival Management Supporting TMA Improvements (incl. CDA, P-RNAV) | 15-05-2019 | 15-05-2023 |       |




Links to SESAR Solutions

| Code | Title | Program | Related Elements |
|------|----------------------|---------|--|
| #108 | AMAN and Point Merge | SESAR1 |      |

Links to PCP ATM Sub-Functionalities

| Code | Title | Related Elements |
|-----------------|-------|------------------|
| No record found | | |

ICAO Block Modules

| Designator | Title | Related Elements |
|------------|---|---|
| B0 | | |
| B0-RSEQ | Improved Runway Traffic Flow through Sequencing (AMAN/DMAN) |    |

References

Applicable legislation

None

Applicable ICAO Annexes and other references

None

Deployment Programme 2022

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Operating Environments

Terminal Airspace

Expected Performance Benefits

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|-------------------------------|--|
| Safety | Maintained 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 | 01-01-2020 | |
| ASP02 | Implement initial basic AMAN procedures | 01-01-2007 | 01-01-2020 | EN |
| ASP03 | Adapt TMA organisation to accommodate use of basic AMAN | 01-01-2007 | 01-01-2020 | |
| ASP04 | Adapt ground ATC systems to support basic AMAN functions | 01-01-2007 | 01-01-2020 | EN |

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 |