



# TS-0307 — Integrated Arrival Departure Management for traffic optimisation within the TMA and Extended TMA Airspace

Traffic in the TMA and nearby sectors is managed in near real-time, taking advantage of predicted demand information provided by local Arrival and Departure Management systems to identify sector/route over-demand or additional capacity, to resolve complex interacting traffic flows in and nearby the TMA and to balance the sector/flow load by controlling sector entry times or waypoint times e.g. via TTL, AMAN Allocated Times, speed advisories, CTA, ground delay and alternate routing, or use of ROC/ROD.

**Rationale** There is a need to actively manage the TMA as a wholly integrated node of the ATM system. Where the system predicts an excess of demand over capacity, aircraft could receive alternate routing to provide extra capacity, demand peaks will be eased via speed adjustments and demand could be reduced by slowing down airborne traffic. If capacity is still insufficient, demand can be modified by ground holdings or altering the departure sequence from one or more airports.

**Forecast V3 end date** 31-12-2021

**Benefits start date (IOC)** 31-12-2028

**Full benefits date (FOC)** 31-12-2032

**Current Maturity Level** V2

**Solution Data Quality Index** -

**Current Maturity Phase** R&D

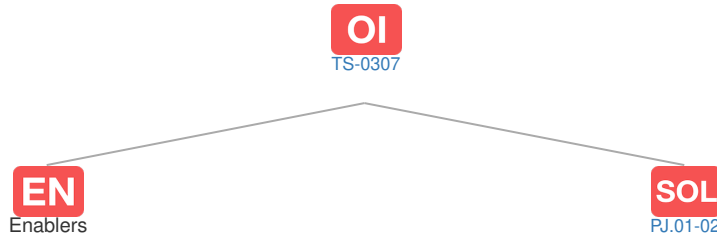
**Scope** -

**Release** -

**PCP Status** -

## Context

### Related Elements



## EN Enablers

Code	Dates																																							
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40														
TS-0307																																								
APP ATC 62								▲			V4	V5	IOC - FOC																											
APP ATC 63								▲			V4	V5	IOC - FOC																											
APP ATC 110								▲			V4	V5	IOC - FOC																											
AERODROME-ATC-33					▲					V4	V5	IOC - FOC																												
ER APP ATC 149a			▲				V4	V5	IOC - FOC																															
METEO-03c					▲					V4	V5	IOC - FOC																												
METEO-04c					▲					V4	V5	IOC - FOC																												
METEO-05c					▲					V4	V5	IOC - FOC																												

**OI** Dependent OI Steps: No associated data

## SOL SESAR Solutions

Code	Title	Program	Related Elements
PJ.01-02	Use of Arrival and Departure Management Information for Traffic Optimisation within the TMA	SESAR 2020 Wave 1	SOL PJ OI DS EOC

**PCP** PCP Elements: No associated data

**OBJ** Implementation Objectives: No associated data

**ICAO** ICAO Block Modules: No associated data