



# TS-0305-B — Arrival Management Extended to En-Route Airspace - impact of overlapping AMAN operations for En Route ATC

*En-Route sectors are expected to contribute to the arrival sequencing towards multiple TMA simultaneously with overlapping AMAN operations inducing potential issues on workload/ complexity/ performance for En Route ATCOs in the execution phase of the flights. This operational improvement will identify and assess these issues, and the relevant means to solve them; the En Route controllers will be provided with information from several arrival management systems operating out to extended range. They will be able to manage the arrival flows together with the rest of the traffic in their area of responsibility.*

**Rationale** In execution phase of the flights, En-route sectors are affected by concurrent arrival management advisories due to a Multiple AMAN environment (AMAN systems of several independent TMAs; overlapping AMAN horizons).  
The information exchange of the advisories/constraints will in most cases be extended across several ATS units, requiring an increased degree of cross-border co-operation and support from 'distant' ATM actors to resolve problems for an airport far outside their normal sphere of operations  
Solution needs to consider how arrival management and sequence implementation impacts the service/benefits for the different arrival streams, TMAs and airports. Solution also needs to consider the impact on other non-arrival traffic within the sector(s) and to consider the impact on ATCO workload and safety in the complex environment.

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

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

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

**Current Maturity Level** V1

**Solution Data Quality Index** -

**Current Maturity Phase** R&D

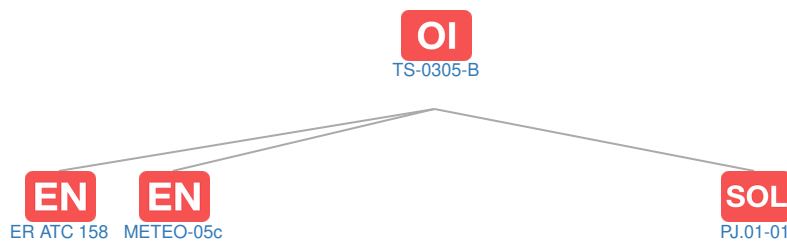
**Scope** -

**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-0305-B																											
ER ATC 158							▲			V4	V5																
METEO-05c					▲					V4	V5																

## OI Dependent OI Steps

Relationship	Code	Title	Related Elements
Has predecessor	TS-0305-A	Arrival Management Extended to En-Route Airspace - single TMA	SOL OI EN OBJ DS PCP ICAO
Has successor	SDM-0402	E-AMAN Common Service (Business Improvement)	SOL OI EN DS

## SOL SESAR Solutions

Code	Title	Program	Related Elements
PJ.01-01	Extended Arrival Management with overlapping AMAN operations and interaction with DCB and CTA	SESAR 2020 Wave 1	SOL PJ OI DS EOC ICAO

PCP PCP Elements: No associated data

OBJ Implementation Objectives: No associated data

ICAO ICAO Block Modules: No associated data