



SDM-0215 — Enhanced ATC and airborne operation using datalink for Trajectory Based Operations (TBO)

Enhanced ATC and airborne operations for TBO, by providing 2D planning information in advance with/without clearance to execute and complex clearances through automatic support using data link standards.

Rationale This OI Step reflects some of the Air / Ground aspects in TBO already identified by the SDM-0213 , but limited to enhanced CPDLC among ATC and increased cockpit automation (scheduled airline or biz jet) .

By anticipating changes and / or using complex CPDLC clearances, the new operational procedures will allow increased predictability, more certainty in flight deck situational awareness (schedule airline or biz jets), more useful trajectory data from the aircraft, and potential for better ATCO planning / resource management possibilities

New procedures may allow ground system to detect a discrepancy in advance (EPP or eFPL or flight plan) and then uplink a route modification before the flight enters the AoR. This a) will save time for communication b) will allow a better ATC resource management with impact on task sharing, inter-centre coordination and workload in ATC and c) will changes in 2D route remaining in a close loop situation via complex CPDLC instructions.

Forecast V3 end date 31-12-2023

Benefits start date (IOC) 31-12-2030

Full benefits date (FOC) 31-12-2034

Current Maturity Level V1

Solution Data Quality Index -

Current Maturity Phase R&D

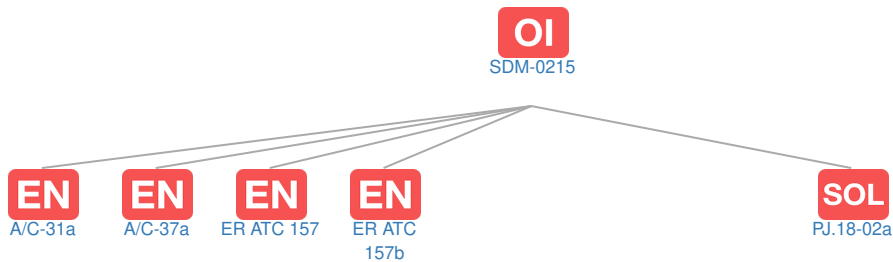
Scope -

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		
SDM-0215																												
🔒 A/C-31a			V4	IOC - FOC																								
🔒 A/C-37a		4							IOC - FOC																			
🔒 ER ATC 157			▲																									
🔒 ER ATC 157b																		V4	V5	IOC - FOC								

OI Dependent OI Steps: No associated data

SOL SESAR Solutions

Code	Title	Program	Related Elements
PJ.18-02a	Trajectory Based Operations (TBO)	SESAR 2020 Wave 1	PJ OI DS EOC

PCP PCP Elements: No associated data

OBJ Implementation Objectives: No associated data

ICAO ICAO Block Modules: No associated data