



AO-0324 — Wake Turbulence separations (for departures) based on Dynamic Aircraft Characteristics

Optimization of the ICAO wake turbulence separation classes by use of longitudinal wake turbulence dynamic pair-wise separation (D-PWS) minima on departures for the initial common departure path from the runway, applicable under given operating conditions, in particular given weather conditions, using dynamic input data. This allows conditional reduction or suspension of separation minima for most aircraft pairs, enabling runway throughput increase compared to ICAO scheme, whilst maintaining acceptable levels of safety.

Rationale The demand is high for airport capacity and efficiency at some European airports, and in particular for increased runway throughput. Today's ICAO separations are based on certificated Maximum Take Off Mass (MTOM) and it includes three categories (i.e. HEAVY, MEDIUM or LIGHT) allocating all aircraft into one of them. Because the separations are static, this leads to over separation in many instances, resulting in a loss of runway throughput. Using knowledge gained with static pair-wise separation (S-PWS) development and using dynamic input data, further optimization is possible.

Forecast V3 end date -

Benefits start date (IOC) 31-12-2023

Full benefits date (FOC) 31-12-2027

Current Maturity Level -

Solution Data Quality Index -

Current Maturity Phase R&D

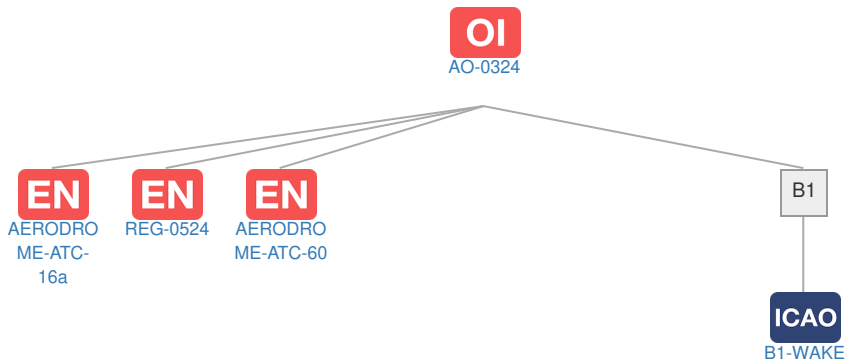
Scope -

Release Later

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		
AO-0324																												
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🔒 REG-0524										▲																		
➔ AERODROME-ATC-60					▲																							

OI Dependent OI Steps

Relationship	Code	Title	Related Elements
Has predecessor	AO-0323	Wake Turbulence Separations (for Departures) based on Static Aircraft Characteristics	SOL OI EN DS ICAO

SOL SESAR Solutions: No associated data

PCP PCP Elements: No associated data

OBJ Implementation Objectives: No associated data

ICAO ICAO Block Modules

Designator	Title	Related Elements
B1		
B1-WAKE	Increased Runway Throughput through Dynamic Wake Turbulence Separation	SOL OI PCP