



# AO-0304 — Weather-Dependent Reductions of Wake Turbulence Separations for Departures

Optimization of the ICAO wake turbulence separation by use of weather-dependent separation (WDS) minima on departures for the initial common departure path from the runway, applicable under given wind conditions. 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 and applicable in all weather conditions, this leads to over separation in many instances, resulting in a loss of runway throughput.

**Forecast V3 end date** 31-08-2019

**Benefits start date (IOC)** 03-03-2025

**Full benefits date (FOC)** 03-03-2030

**Current Maturity Level** V2 finalised

**Solution Data Quality Index** -

**Current Maturity Phase** R&D

**Scope** Local

**Release** R9

**PCP Status** -

## Context

### Related Elements





