

AOP20 — Wake Turbulence Separations for Departures based on Static Aircraft Characteristics (S-PWS-D)

This objective represents optimization of the ICAO wake turbulence separation classes by use of longitudinal wake turbulence static pair-wise separation minima for departures (S-PWS-D), applicable in all operating conditions.

The Static PairWise Separation for Departures concept optimizes wake separations between departures on the initial departure path by moving to a scheme defined between aircraft type pairs for the 96 aircraft types frequently at ECAC major airports, together with a scheme defined by a larger number of wake categories (20-CAT (6-CAT + 14-CAT)) for other aircraft type combinations.

The S-PWS-D is applied using a separation delivery tool, where the pairwise separations will be used as input into the separation delivery tool.

S-PWS-D requires the Optimised Separation for Departure (OSD) tool to be integrated at CWP and the wind measurement or forecast on the final approach path.

This objective targets capacity-constrained runways during high-intensity runway operations and applies to very large, large and possibly medium airports.

NOTE: This is an "Initial" objective to provide advance notice to stakeholders. Some aspects of the objective require further validation.

NOTE FOR MILITARY AUTHORITIES: It is the responsibility of each military authority to review this Objective IN ITS ENTIRETY and address each of the SLoAs that the military authority considers RELEVANT for itself. This has to be done on top and above of the review of "MIL" SLoAs which identify actions EXCLUSIVE to military authorities.

Edition	2022
Stakeholders	Air Navigation Service Provider / International Organisations and Regional Bodies
Туре	SESAR
Scope	Airport
Status	Initial



Applicability Area(s) and Timescales				
Applicability Area:	See list of airports in MF (Not yet defined)	PLevel 3 Implement	tation Plan - Ann	exes
Timescales		From	Ву	Applicable to
IOC used for Analytics functioning only - not for implementation planning				
IOC used for Analytics functioning only - not for implement	tation planning	01-01-2020	-	

OI Operational I				
·	mprovment Steps			
Code	Title	IOC	FOC	Related Elements
AO-0323	Wake Turbulence Separations (fo on Static Aircraft Characteristics	r Departures) based -	-	SOL OI EN I
SOL Links to SE	ESAR Solutions			
Code	Title	Program	Related Ele	ements
No record found				
PCP Links to PC	CP ATM Sub-Functiona	lities		
Code	Title		Related Ele	ements
ICAO BIO	ock Modules: No assoc	iated data		
Deferences				
Applicable legislation None Applicable ICAO Annex None Deployment Programm	tes and other references e 2022			
Applicable legislation None Applicable ICAO Annex None Deployment Programm - Operating Environment	tes and other references e 2022 IS			

Stakeholder Lines of Action

Code	Title	From	Ву	Related Enablers
ASP01	Install ATC tool to support static pair-wise wake separation for departures			
ASP02	Adapt ATC system (DMAN) to use static pair-wise wake separation for departures	21-06-2021		
ASP03	Develop procedures for application of static pair-wise wake separation on final approach	21-06-2021		
ASP04	Safety Assessment	21-06-2021		
ASP05	Training	21-06-2021		
ASP06	System in use	21-06-2021		
INT01	Regulatory provisions (AMC) for static pair-wise wake separation minima	21-06-2021		

Supporting Material

Title

Related SLoAs

No record found

Consultation & Approval	
Working Arrangement in charge	
Outline description approved in	
Latest objective review at expert level	
Commitment Decision Body	
Objective approved/endorsed in	
Latest change to objective approved/endorsed in	-