



AOP09 — Implement Optimised Dependent Parallel Operations

The purpose of this operational change is to increase utilisation of the parallel runway operations. It aims at reducing dependencies between the runways by implementing more accurate surveillance techniques and controller tools as well as associated procedures.

Capacity gains can be achieved by increased utilisation of the combined runways. Dependencies between multiple runways determine the practical runway capacity which in most cases is lower than the combined single runway capacities.

Edition	2022
Stakeholders	Regulator / Air Navigation Service Provider / Airspace Users
Type	SESAR
Scope	Airport
Status	Achieved

Context

Related Elements



Applicability Area(s) and Timescales

APP AREA: See list of airports in MP Level 3 Implementation Plan - Annexes

Timescales	From	By	Applicable to
Initial operational capability	01-12-2012	-	
Full operational capability	-	31-12-2015	

Links to ATM Master Plan Level 2

Operational Improvement Steps

Code	Title	IOC	FOC	Related Elements
AO-0403	Optimised Dependent Parallel Operations	-	-	

Links to SESAR Solutions

Code	Title	Program	Related Elements
No record found			



Links to PCP ATM Sub-Functionalities

Code	Title	Related Elements
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No record found



ICAO Block Modules: No associated data

References

Applicable legislation

Implementing Regulation (EU) No 1034/2011 of 17 October 2011 on safety oversight in air traffic management and air navigation services and amending Regulation (EU) N° 691/2010 18-10-2011

Applicable ICAO Annexes and other references

ICAO Annex 10 - Telecommunications

ICAO Annex 14 - Aerodromes

EUROCONTROL - ESARR 4 - Risk Assessment and Mitigation in ATM

Deployment Programme 2022

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Operating Environments

Airport

Expected Performance Benefits

Safety	N/A
Capacity	Increased runway utilisation
Operational efficiency	-
Cost efficiency	N/A
Environment	N/A
Security	N/A

Stakeholder Lines of Action

Code	Title	From	By	Related Enablers
REG01	Approve the procedures for optimised dependant parallel operations	01-01-2012	31-12-2015	
REG02	Conduct safety oversight of the changes	01-01-2012	31-12-2015	
REG03	Certify and deliver operational approval	01-01-2012	31-12-2015	
ASP01	Upgrade and put into service surveillance systems to support optimised dependent parallel operations	01-01-2012	31-12-2015	
ASP02	Upgrade and put into service ATS systems to support optimised dependent parallel operations	01-01-2012	31-12-2015	
ASP03	Develop and validate procedures for optimised dependant parallel operations	01-01-2012	31-12-2015	EN
ASP04	Develop safety assessment for the changes	01-01-2012	31-12-2015	
ASP05	Train operational and technical staff	01-01-2012	31-12-2015	
ASP06	Revise and publish Aeronautical Information documents	01-01-2012	31-12-2015	
USE01	Obtain airworthiness certification	01-01-2012	31-12-2015	EN
USE02	Obtain operational approval	01-01-2012	31-12-2015	
USE03	Update training manual and train crew	01-01-2012	31-12-2015	

Supporting Material

Title	Related SLoAs
EASA - ETSO-C166a - Extended Squitter Automatic Dependent Surveillance - Broadcast (ADS-B) and Traffic Information Services (TIS-B) Equipment Operating on the Radio Frequency of 1090 Megahertz (MHz) - ED Decision 2008/012/R / 11/2008 http://www.easa.europa.eu/agency-measures/certification-specifications.php	USE01, USE02
ETSI - EN 303 213-1 - Advanced Surface Movement Guidance and Control System (A-SMGCS); Part 1: A-SMGCS Level 1 including external interfaces; Community Specification for application under the Single European Sky Interoperability Regulation EC 552/2004 - Ver. 2.1.1 / 06/2020 http://webapp.etsi.org/workprogram/SimpleSearch/QueryForm.asp	ASP01, ASP02
ETSI - EN 303 213-2 - Advanced Surface Movement Guidance and Control System (A-SMGCS); Part 2: Level 2 including external interfaces; Community Specification for application under the Single European Sky Interoperability Regulation EC 552/2004 - Ver. 2.1.1 / 06/2020 http://webapp.etsi.org/workprogram/SimpleSearch/QueryForm.asp	ASP01, ASP02
ETSI - EN 303 213-3 - Advanced Surface Movement Guidance and Control System (A-SMGCS); Part 3: Deployed cooperative sensor including its interfaces; Community Specification for application under the Single European Sky Interoperability Regulation EC 552/2004 - Ver. 2.1.1 / 06/2020 http://webapp.etsi.org/workprogram/SimpleSearch/QueryForm.asp	ASP01, ASP02
ETSI - EN 303 213-4-1 - Advanced Surface Movement Guidance and Control System (A-SMGCS); Part 4: Deployed non-cooperative sensor including its interfaces; Sub-part 1: Generic requirements for non-cooperative sensor; Community Specification for application under the Single European Sky Interoperability Regulation EC 552/2004 - Ver. 2.1.1. / 09/2020 http://webapp.etsi.org/workprogram/SimpleSearch/QueryForm.asp	ASP01, ASP02

Title	Related SLoAs
EUROCAE - ED-102A - Minimum Operational Performance Specification for 1090 MHz Extended Squitter Automatic Dependant Surveillance - Broadcast (ADS-B) & Traffic Information Services - Broadcast (TIS-B) with Corrigendum 1 01/2012 https://eshop.eurocae.net/eurocae-documents-and-reports	ASP01, ASP02, REG03, USE01, USE02
EUROCAE - ED-126 - Safety, Performance and Interoperability Requirements Document for ADS-B-NRA Application 12/2006 https://eshop.eurocae.net/eurocae-documents-and-reports	ASP01, ASP02, ASP04, REG02
EUROCAE - ED-161 - Safety, Performance and Interoperability Requirements Document for ADS-B-RAD Application 09/2009 https://eshop.eurocae.net/eurocae-documents-and-reports	ASP01, ASP02, ASP04, REG02
EUROCAE - ED-163 - Safety, Performance and Interoperability Requirements Document for ADS-B Airport Surface Surveillance Application (ADS-B-APT) 12/2010 https://eshop.eurocae.net/eurocae-documents-and-reports	ASP01, REG02
EUROCONTROL - Airport CDM Implementation Manual - Edition 5.0 / 03/2017 https://www.eurocontrol.int/sites/default/files/publication/files/airport-cdm-manual-2017.PDF	ASP05
EUROCONTROL - EAM 4/GUI 2 - ESARR 4 and related Safety Oversight - Edition 4.0 / 03/2006 http://www.eurocontrol.int/articles/esarr-4-risk-assessment-and-mitigation-atm	ASP04, REG02
EUROCONTROL - EAM 5/GUI 3 - Explanatory Material on ESARR 5 Requirements for Engineers and Technical Personnel - Edition 2.0 / 02/2006 http://www.eurocontrol.int/articles/esarr-5-atm-services-personnel	ASP05
EUROCONTROL - Mode S Transponder in an Airport/A-SMGCS Environment - Edition 1.1 / 05/2005 https://www.eurocontrol.int/articles/advanced-surface-movement-guidance-and-control-systems-smgcs	ASP01, ASP02
EUROCONTROL - SPEC-146 - EUROCONTROL Specification for the Electronic Aeronautical Information Publication (eAIP) - Edition 2.1 / 10/2015 https://www.eurocontrol.int/publication/eurocontrol-specification-electronic-aeronautical-information-publication-eaip	ASP06
ICAO - Doc 4444 - Air Traffic Management - Edition 16 / 11/2016 https://store.icao.int/	ASP03, REG01
ICAO - Doc 8126 - Aeronautical Information Services Manual - Edition 6 / 09/2009 https://store.icao.int/	ASP06
ICAO - Doc 9906-Volume 1 - Quality Assurance Manual for Flight Procedure Design - Volume 1 - Flight Procedure Design Quality Assurance System - Edition 1 / 12/2009 https://store.icao.int/	ASP03, REG01

Consultation & Approval

Working Arrangement in charge	Airport Operations Team (AOT)
Outline description approved in	03/2011
Latest objective review at expert level	04/2011
Commitment Decision Body	Provisional Council (PC)
Objective approved/endorsed in	08/2011
Latest change to objective approved/endorsed in	-

