

## AOP04.2 — Advanced Surface **Movement Guidance and Control** System (A-SMGCS) Runway **Monitoring and Conflict Alerting**

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Page 1 of 4

(RMCA) (Airport Safety Support Service = former ICAO Level 2)

Runway Monitoring and Conflict Alerting (RMCA) (included in Airport Safety Support Service = former ICAO Level 2) is the first element of the A-SMGCS 'Airport Safety Support' service. Implementation Objective AOP12 covers the other elements of the Airport Safety Support service which are the Conflicting ATC clearances (CATC) and Conformance Monitoring Alerts for Controllers (CMAC).

Implementation of a Runway Monitoring and Conflict Alerting (RMCA) functionality consists of an airport surface surveillance system (i.e. A-SMGCS Surveillance Service - former ICAO Level 1) complemented with a short term conflicting alerting tool that monitors movements on or near the runway and detects conflicts between an aircraft and another mobile as well as runway incursion by intruders. Appropriate alerts are visualised on the controller's HMI.

The implementation of A-SMGCS Surveillance a pre-requisite for the implementation of Runway Monitoring and Conflict Alerting.

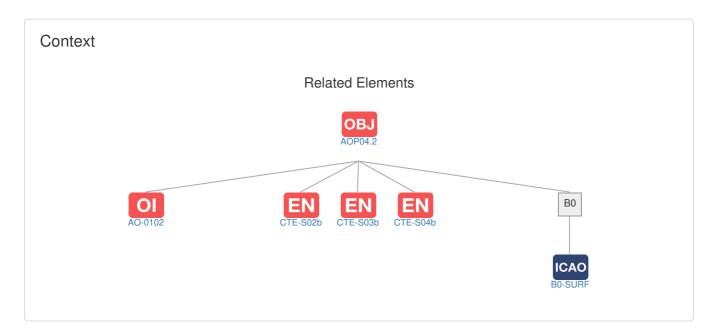
NOTE FOR MILITARY AUTHORITIES: It is the responsibility of each military authority to review this Objective IN ITS ENTIRETY and address each of the SLoAs that the military authority considers RELEVANT for itself. This has to be done on top and above of the review of "MIL" SLoAs which identify actions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

> **Edition** 2022

Stakeholders Air Navigation Service Provider / Airport Operator / International Organisations

and Regional Bodies

SESAR Type Airport Scope Status Active



## Applicability Area(s) and Timescales

Applicability Area: See list of airports in MP Level 3 Implementation Plan - Annexes

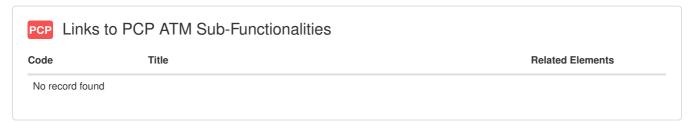
(Non-CP1 Airports)

Timescales	From	Ву	Applicable to
Initial operational capability	01-01-2021	-	Applicability Area
Full operational capability	-	31-12-2025	Applicability Area

Source: European ATM Portal - Report produced: 29-04-2024 - Date refresh: 28-09-2023 EATMA data version: EATMA V12.1 - ATM Master Plan data set version: Dataset 19 Public - MP L3 Edition: MP L3 Plan 2022

### Links to ATM Master Plan Level 2 Operational Improvment Steps Code IOC FOC **Related Elements** Automated Alerting of Controller in Case of Runway Incursion or Intrusion into Restricted Areas AO-0102 30-04-2014 30-04-2018 OI EN OBJ ICAO **EN** Enablers Title IOC **Related Elements** Code 31-12-2007 CTE-S02b Surface Movement Radar STK OI EN OBJ 31-12-2020 CTE-S03b ADS-B station for RAD and APT surveillance STK OI EN OBJ 31-12-2007 CTE-S04b Airport Multilateration (MLAT) OI EN OBJ

## Code Title Program Related Elements No record found



ICAO Block Modules					
Desig	nator	Title	Related Elements		
В0					
	B0-SURF	Improved Runway Safety (A-SMGCS Level 1-2 and Cockpit Moving Map)	OI OBJ		

# References Applicable legislation None Applicable ICAO Annexes and other references ICAO Annex 10 - Telecommunications ICAO Annex 14 - Aerodromes Deployment Programme 2022 Operating Environments Airport

## **Expected Performance Benefits**

Safety

Better situational awareness and support to controller in detecting potentially hazardous conflicts on or near the runway or infringements of runway.

Capacity

Operational efficiency

More efficient control of surface traffic.

Cost efficiency

Environment

Security

## Stakeholder Lines of Action

Code	Title	From	Ву	Related Enablers
REG01	Approve A-SMGCS RMCA implementations for operation	DELETED		EN
ASP01	Install required A-SMGCS RMCA function equipment	01-01-2007	31-12-2025	EN
ASP02	Train aerodrome control staff in the use of A-SMGCS RMCA in the provision of an aerodrome control service	01-01-2007	31-12-2025	
ASP03	Implement approved A-SMGCS RMCA operational procedures	01-01-2007	31-12-2025	EN
APO01	Install required A-SMGCS RMCA function equipment	01-01-2007	31-12-2025	EN
INT01	Coordinate amendments to the related ICAO documentation to include A-SMGCS Level 2 procedures (Airport Safety Support Service - former ICAO Level 2)	FINALISED		EN

## Supporting Material

Title Related SLoAs

EUROCAE - ED-87E - MASPS for A-SMGCS including Airport Safety Support Service Routing Service and Guidance APO01, ASP01 Service - April 2022 / 04/2022

https://www.eurocae.net/news/posts/2022/may/ed-87e-masps-for-a-smgcs-including-airport-safety-support-servicerouting-service-and-guidance-service/

EUROCONTROL - ATCO Rating Training - Training Plans: Aerodrome Training - Annex B: Detailed Training Plans -

ASP02

https://trainingzone.eurocontrol.int

Edition 1.0 / 03/2004

EUROCONTROL - SPEC-171 - EUROCONTROL Specification for Advanced-Surface Movement Guidance and Control System (A-SMGCS) Services - Edition 2.0 / 04/2020

APO01, ASP01, ASP02, ASP03

https://www.eurocontrol.int/publication/eurocontrol-specification-smgcs-services

## Consultation & Approval

Working Arrangement in charge

Airport Operations Team (AOT)

Outline description approved in

04/2012

Latest objective review at expert level **Commitment Decision Body** 

Provisional Council (PC)

Objective approved/endorsed in Latest change to objective approved/endorsed in 07/2005 07/2014

Source: European ATM Portal - Report produced: 29-04-2024 - Date refresh: 28-09-2023 EATMA data version: EATMA V12.1 - ATM Master Plan data set version: Dataset 19 Public - MP L3 Edition: MP L3 Plan 2022

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EATMA data version: EATMA V12.1 - ATM Master Plan data set version: Dataset 19 Public - MP L3 Edition: MP L3 Plan 2022

Page 4 of 4