# OBJ AOP04.2 — Advanced Surface Movement Guidance and Control System (A-SMGCS) Runway Monitoring and Conflict Alerting (RMCA) (Airport Safety Support Service = former ICAO Level 2)

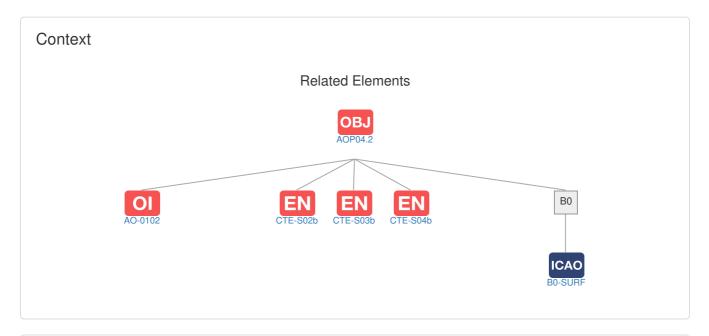
Runway Monitoring and Conflict Alerting (RMCA) (included in Airport Safety Support Service = former ICAO Level 2) is the first element of the A-SMGCS 'Airport Safety Support' service. Implementation Objective AOP12 covers the other elements of the Airport Safety Support service which are the Conflicting 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
Туре	SESAR
Scope	Airport
Status	Active



Appli	cability Area :	See list of airports in MP Level 3 (Non-CP1 Airports)	mplementation Plan - Annexes
imescales	From	Ву	Applicable to
nitial operational capability	01-01	-2021 -	Applicability Area
ull operational capability	-	31-12-2025	Applicability Area

Code	Title	IOC	FOC	Related Elements
AO-0102	Automated Alerting of Controller in Case of Runway Incursion or Intrusion into Restricted Areas	30-04-2014	30-04-2018	OI EN OBJ I
EN Enablers	3			
Code	Title	IOC	Related E	lements
CTE-S02b	Surface Movement Radar	31-12-2007	sтк О ♣	I EN OBJ
CTE-S03b	ADS-B station for RAD and APT surveillance	31-12-2020	STK O	
		31-12-2007		

SOL Links to SESAR Solutions			
Code	Title	Program	Related Elements
No record found			

PCP Links to PCP ATM Sub-Functionalities			
Code	Title	Related Elements	
No record found			

ICAO BIO	ck Modules	
Designator	Title	Related Elements
B0		
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 Service - April 2022 / 04/2022 https://www.eurocae.net/news/posts/2022/may/ed-87e-masps-for-a-smgcs-including-airport-safety-support-service- routing-service-and-guidance-service/	APO01, ASP01
EUROCONTROL - ATCO Rating Training - Training Plans: Aerodrome Training - Annex B: Detailed Training Plans - Edition 1.0 / 03/2004 https://trainingzone.eurocontrol.int	ASP02
EUROCONTROL - SPEC-171 - EUROCONTROL Specification for Advanced-Surface Movement Guidance and Control System (A-SMGCS) Services - Edition 2.0 / 04/2020 https://www.eurocontrol.int/publication/eurocontrol-specification-smgcs-services	APO01, ASP01, ASP02, ASP03

Consultation & Approval		
Working Arrangement in charge	Airport Operations Team (AOT)	
Outline description approved in	-	
Latest objective review at expert level	04/2012	
Commitment Decision Body	Provisional Council (PC)	
Objective approved/endorsed in	07/2005	
Latest change to objective approved/endorsed in	07/2014	