



# AO-0102 — Automated Alerting of Controller in Case of Runway Incursion or Intrusion into Restricted Areas

The system detects conflicts and infringements of some ATC rules involving aircraft or vehicles on runways, and provides the controller with appropriate alerts. Whereas the detection of conflicts identifies a possibility of a collision between aircraft and/or vehicles, the detection of infringements focuses on dangerous situations because one or more mobiles infringed ATC rules. This improvement addresses also incursions by an aircraft into an area where the presence of an aircraft (or vehicle) is temporarily restricted or forbidden (e.g. closed taxiway, ILS or MLS critical area).

**Rationale** Provision of a safety net for runway operations, capable of detecting and preventing most dangerous hazards resulting from deviations or errors.

**Forecast V3 end date** -

**Benefits start date (IOC)** 30-04-2014

**Full benefits date (FOC)** 30-04-2018

**Current Maturity Level** -

**Solution Data Quality Index** -

**Current Maturity Phase** R&D Finalised

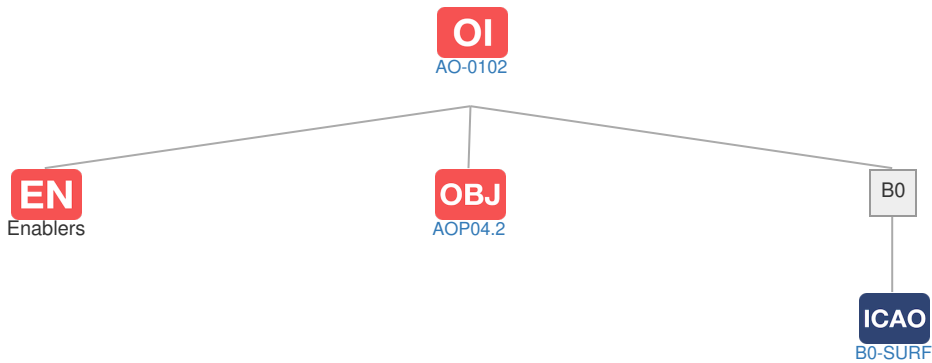
**Scope** Local

**Release** -

**PCP Status** -

## Context

### Related Elements



## EN Enablers

Code	Dates																																			
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40										
AO-0102																																				
AERODROME-ATC-03																																				
ASMGCS-0101																																				
ASMGCS-0102																																				
ASMGCS-0103																																				
ASMGCS-0104																																				
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ASMGCS-0114																																				
ASMGCS-0115																																				
PRO-139																																				
PRO-201b																																				
A/C-48																																				
A/C-48a																																				
ADSB-0003																																				
ADSB-0102a																																				
ADSB-0106																																				
ER APP ATC 164																																				

## OI Dependent OI Steps

Relationship	Code	Title	Related Elements
Has predecessor	AO-0201	Ground Controller Situational Awareness in all Weather Conditions	
Has successor	AO-0104-A	Airport Safety Nets for Controllers at A-SMGCS Airports	 

SESAR Solutions: No associated data

PCP Elements: No associated data

## OBJ Implementation Objectives

Code	Title	Related Elements
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)	 



## ICAO Block Modules

Designator	Title	Related Elements
B0		
B0-SURF	Improved Runway Safety (A-SMGCS Level 1-2 and Cockpit Moving Map)	<b>OI</b> <b>OBJ</b>