



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

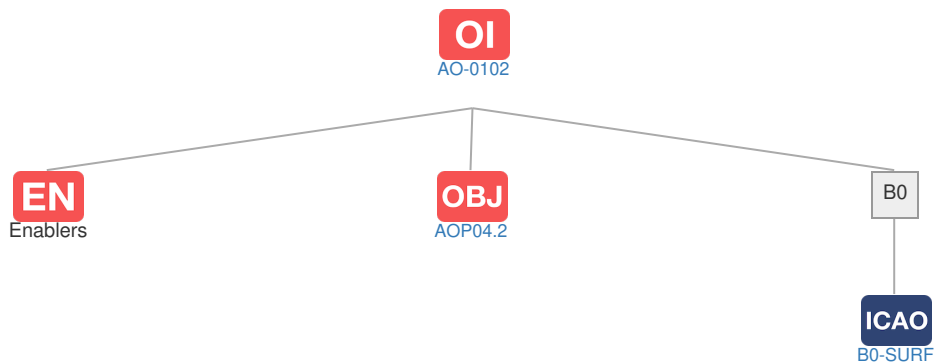
Scope Local

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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 🔒 ASMGCS-0113 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 🔒 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 | <div style="display: flex; gap: 5px;"> <div style="border: 1px solid black; padding: 2px;">OI</div> <div style="border: 1px solid black; padding: 2px;">EN</div> <div style="border: 1px solid black; padding: 2px;">OBJ</div> <div style="border: 1px solid black; padding: 2px;">ICAO</div> </div> |
| Has successor | AO-0104-A | Airport Safety Nets for Controllers at A-SMGCS Airports | <div style="display: flex; flex-direction: column; gap: 5px;"> <div style="display: flex; gap: 5px;"> <div style="border: 1px solid black; padding: 2px;">SOL</div> <div style="border: 1px solid black; padding: 2px;">OI</div> <div style="border: 1px solid black; padding: 2px;">EN</div> <div style="border: 1px solid black; padding: 2px;">OBJ</div> </div> <div style="display: flex; gap: 5px;"> <div style="border: 1px solid black; padding: 2px;">DS</div> <div style="border: 1px solid black; padding: 2px;">PCP</div> <div style="border: 1px solid black; padding: 2px;">ICAO</div> <div style="border: 1px solid black; padding: 2px;">A→A</div> </div> </div> |

SOL SESAR Solutions: No associated data

PCP 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) (former Level 2) | <div style="display: flex; flex-direction: column; gap: 5px;"> <div style="display: flex; gap: 5px;"> <div style="border: 1px solid black; padding: 2px;">STK</div> <div style="border: 1px solid black; padding: 2px;">OI</div> <div style="border: 1px solid black; padding: 2px;">EN</div> </div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">ICAO</div> </div> |



ICAO Block Modules

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