



# AO-0104-A — Airport Safety Nets for Controllers at A-SMGCS Airports

The System detects conflicting ATC clearances during runway operations, and non conformance to procedures or clearances for traffic on runways, taxiways and in the apron/stand/gate area. Appropriate alerts are provided to controllers.

**Rationale** Current automated alerting system is limited to the runway and is based upon a set of rules that assist controllers in detecting the most serious conflicts. This system has no knowledge of aircraft intent or clearances and in some cases the time window to determine and communicate a solution may be very limited

**Forecast V3 end date** -

**Benefits start date (IOC)** 31-12-2019

**Full benefits date (FOC)** 31-12-2023

**Current Maturity Level** V3 finalised

**Solution Data Quality Index** -

**Current Maturity Phase** R&D

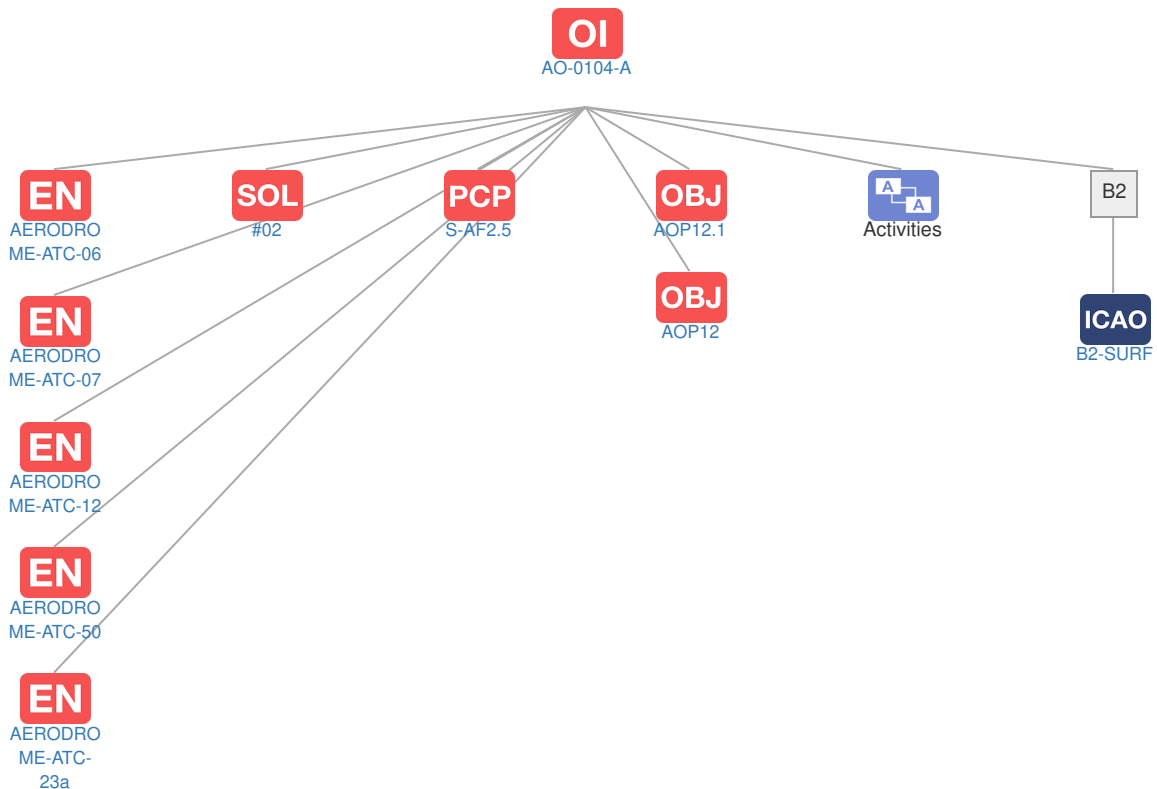
**Scope** Local

**Release** R5

**PCP Status** PCP

## 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-0104-A         |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |
| AERODROME-ATC-06  |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |
| AERODROME-ATC-07  |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |
| AERODROME-ATC-12  |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |
| AERODROME-ATC-50  |       |    |    | V4 | V5 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |
| AERODROME-ATC-23a |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |

## OI Dependent OI Steps

| Relationship    | Code      | Title   | Related Elements |
|-----------------|-----------|---|------------------|
| Has predecessor | AO-0102   | Automated Alerting of Controller in Case of Runway Incursion or Intrusion into Restricted Areas |                  |
| Has predecessor | AO-0201   | Ground Controller Situational Awareness in all Weather Conditions                               |                  |
| Has successor   | AO-0104-B | Extended Airport Safety Nets for Controllers at A-SMGCS Airports                                | <br>             |

## SOL SESAR Solutions

| Code | Title  | Program | Related Elements |
|------|--|---------|------------------|
| #02  | Airport Safety Nets for controllers: conformance monitoring alerts and detection of conflicting ATC clearances | SESAR1  | <br>             |

## PCP PCP Elements

| Code    | Title               | Related Elements |
|---------|---------------------|------------------|
| S-AF2.5 | Airport Safety Nets | <br>             |

## OBJ Implementation Objectives

| Code    | Title  | Related Elements |
|---------|--|------------------|
| AOP12.1 | Airport Safety Nets  |                  |
| AOP12   | Improve Runway and Airfield Safety with Conflicting ATC Clearances (CATC) Detection and Conformance Monitoring Alerts for Controllers (CMAC) | <br>             |



## ICAO Block Modules

| Designator | Title   | Related Elements                           |
|------------|---|--|
| B2         |   |  |
| B2-SURF    | Optimized Surface Routing and Safety Benefits (A-SMGCS Level 3-4 and SVS) | <b>SOL</b> <b>OI</b> <b>OBJ</b> <b>PCP</b> |