



AO-0224 — Advanced Automated Assistance to Controller for Surface Movement Planning and Routing

The System provides the controller with the most suitable taxi route, calculated by:

- optimizing the selected criteria (e.g. delay, distance, emissions or a combination thereof),
- and conforming to the planning, ground rules and known operational constraints,
- and taking into account potential conflicting situations with other mobiles.

Expected benefits are an increased situational awareness of controllers, particularly in LVPs, and an improved predictability of ground movements thanks to the computation of more accurate and reliable estimated taxi times.

Rationale There is a need at some airports with complex layout to improve the allocation of taxi routes to aircraft and vehicles under ATC by supporting the controller with a tool that automatically plans taxi routes and make them known to the ATC system, which is required by some conformance monitoring alerts, the A-SMGCS Guidance function and the sequencing of departures flights at the runway.

Forecast V3 end date 31-12-2021

Benefits start date (IOC) 31-12-2028

Full benefits date (FOC) 31-12-2032

Current Maturity Level V2

Solution Data Quality Index -

Current Maturity Phase R&D

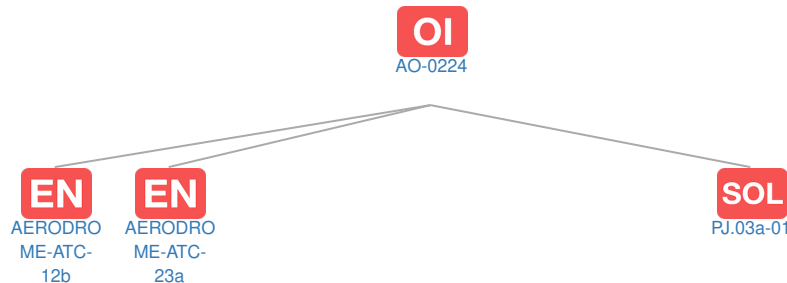
Scope -

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-0224																																				
 AERODROME-ATC-12b							▲				V4	V5			IOC - FOC																					
 AERODROME-ATC-23a	▲																																			

OI Dependent OI Steps: No associated data

SOL SESAR Solutions

Code	Title	Program	Related Elements
PJ.03a-01	Enhanced Guidance Assistance to Aircraft and Vehicles on the Airport Surface Combined with Routing	SESAR 2020 Wave 1	<div style="display: flex; gap: 5px;"> <div style="background-color: #f06292; padding: 2px 5px;">SOL</div> <div style="background-color: #f44336; padding: 2px 5px;">PJ</div> <div style="background-color: #f44336; padding: 2px 5px;">OI</div> <div style="background-color: #f44336; padding: 2px 5px;">DS</div> <div style="background-color: #8bc34a; padding: 2px 5px;">EOC</div> <div style="background-color: #39546e; padding: 2px 5px;">ICAO</div> </div>

PCP PCP Elements: No associated data

OBJ Implementation Objectives: No associated data

ICAO ICAO Block Modules: No associated data