



# AO-0814 — Enhancement of Airside/Landside Performance Management

Airport Airside/Landside Performance Management is enhanced through incorporation of a rationalised dash board fed with all landside and airside leading key performance indicators covering TAM processes such as passenger, baggage or stand. This is achieved thanks to:

- awareness on potential airport performance degradation (through integrated models that forecast future performance)
- impact assessment and evaluation of predefined solution scenarios trading-off KPIs (supported by previously-performed post-analysis activities, and possibly by machine learning capabilities, integrated models that permit stakeholders to model what-if scenarios)
- collaborative DCB decision-making between airport stakeholders for potential re-evaluation of solution scenarios and selection of the one that would consist in the best trade-off between KPAs and best limit the overall airport performance deterioration

Benefits are expected in Predictability, Efficiency, Capacity and Resilience (disruption duration shortened).

**Rationale** There is a need to better anticipate future airport landside/airside performance in order to collaboratively limit the magnitude of any anticipated airport performance deterioration. Operational issues remain to be tackled as the landside processes are not considered at present but need to be and these also have an impact on the predictability and stability of the TOBT that the ATM operations rely on. However, the ability to predict and detect problems in the airport using post-ops could be the key innovations that bring increased predictability to the operations and TOBT. Therefore, benefits of post-ops could be increased by using Artificial Intelligence (Machine Learning).

**Forecast V3 end date** 31-12-2022

**Benefits start date (IOC)** 31-12-2028

**Full benefits date (FOC)** 31-12-2032

**Current Maturity Level** V1 finalised

**Solution Data Quality Index** -

**Current Maturity Phase** R&D

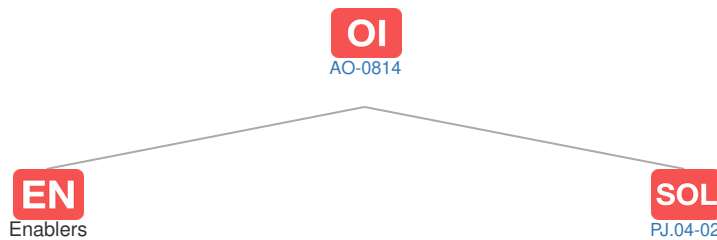
**Scope** -

**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-0814																											
🔒 AIRPORT-03b							▲			V4	V5																
🔒 AIRPORT-40b							▲			V4	V5																
🔒 AIRPORT-41							▲			V4	V5																
🔒 AIRPORT-42							▲			V4	V5																
🔒 AIRPORT-54							▲			V4	V5																
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🔒 HUM-011																											
🔒 HUM-012																											
🔒 PRO-249																											
➔ AERODROME-ATC-05																											
➔ AERODROME-ATC-64																											
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➔ AIRPORT-12																											
➔ AIRPORT-31																											
➔ AIRPORT-35b																											

**OI** Dependent OI Steps: No associated data

## SOL SESAR Solutions

Code	Title	Program	Related Elements
PJ.04-02	Enhanced Collaborative Airport Performance Management	SESAR 2020 Wave 1	<b>SOL</b> <b>PJ</b> <b>OI</b> <b>DS</b> <b>EOC</b>

**PCP** PCP Elements: No associated data

**OBJ** Implementation Objectives: No associated data

**ICAO** ICAO Block Modules: No associated data

