



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

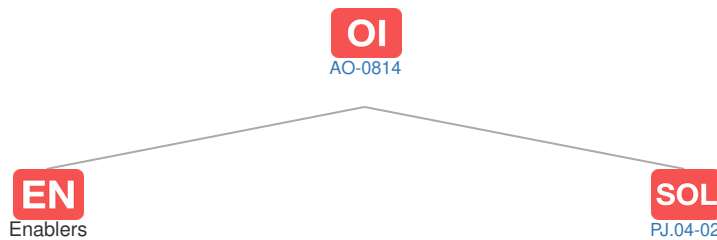
Scope -

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 | | | | | | | | | | | | | | | | |
| 🔒 HUM-008 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 🔒 HUM-009 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 🔒 HUM-010 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 🔒 HUM-011 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 🔒 HUM-012 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 🔒 PRO-249 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ➔ AERODROME-ATC-05 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ➔ AERODROME-ATC-64 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ➔ AERODROME-ATC-65 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ➔ AIRPORT-07 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ➔ AIRPORT-09 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ➔ 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 | SOL PJ OI DS EOC |

PCP PCP Elements: No associated data

OBJ Implementation Objectives: No associated data

ICAO ICAO Block Modules: No associated data

