



Solution #37 — Extended Flight Plan

The extended flight plan is an extension of the ICAO 2012 FPL. New information encompasses:

- The 4D trajectory as calculated by the FOC flight planning system in support to the generation of the operational flight plan. The 4D trajectory information is not limited to 4D points. It contains additional elements for each point of the trajectory such as speeds, and aircraft mass;
- Flight specific performance data: the climbing and descending capabilities of the aircraft specific to the flight.

Short term use cases for EFPL are:

- Use extended flight plan information to improve the process of validation of flight plans by the Network Manager, in particular by reducing the number of flight plan rejections resulting from the low resolution of the ICAO 2012 flight plan;
- Use extended flight plan information to improve traffic predictions for traffic flow/complexity management;
- Use extended flight plan information to improve ATC processes (traffic prediction, detection/resolution of conflicts, AMAN operations).

Program SESAR1

Need for coordination Network

Related to [Solution #46](#), [Solution PJ.07-01](#), [Solution PJ.07-03](#)

Date V1 Gate -

Date V2 Gate -

Date V3 Gate -

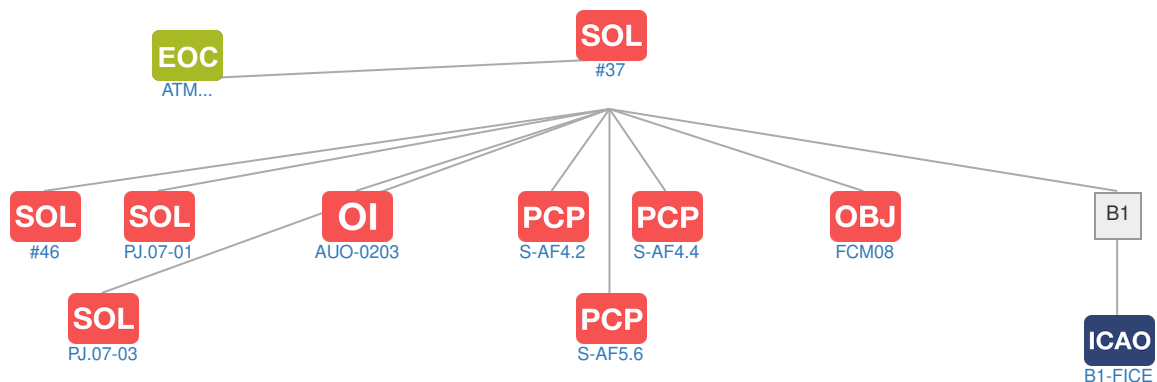
Deployment Start Date 31-12-2015

Benefits Start Date (IOC) 01-07-2022

Full Benefit Date (FOC) 01-07-2026

Context

Related Elements





Operating Environments: No associated data



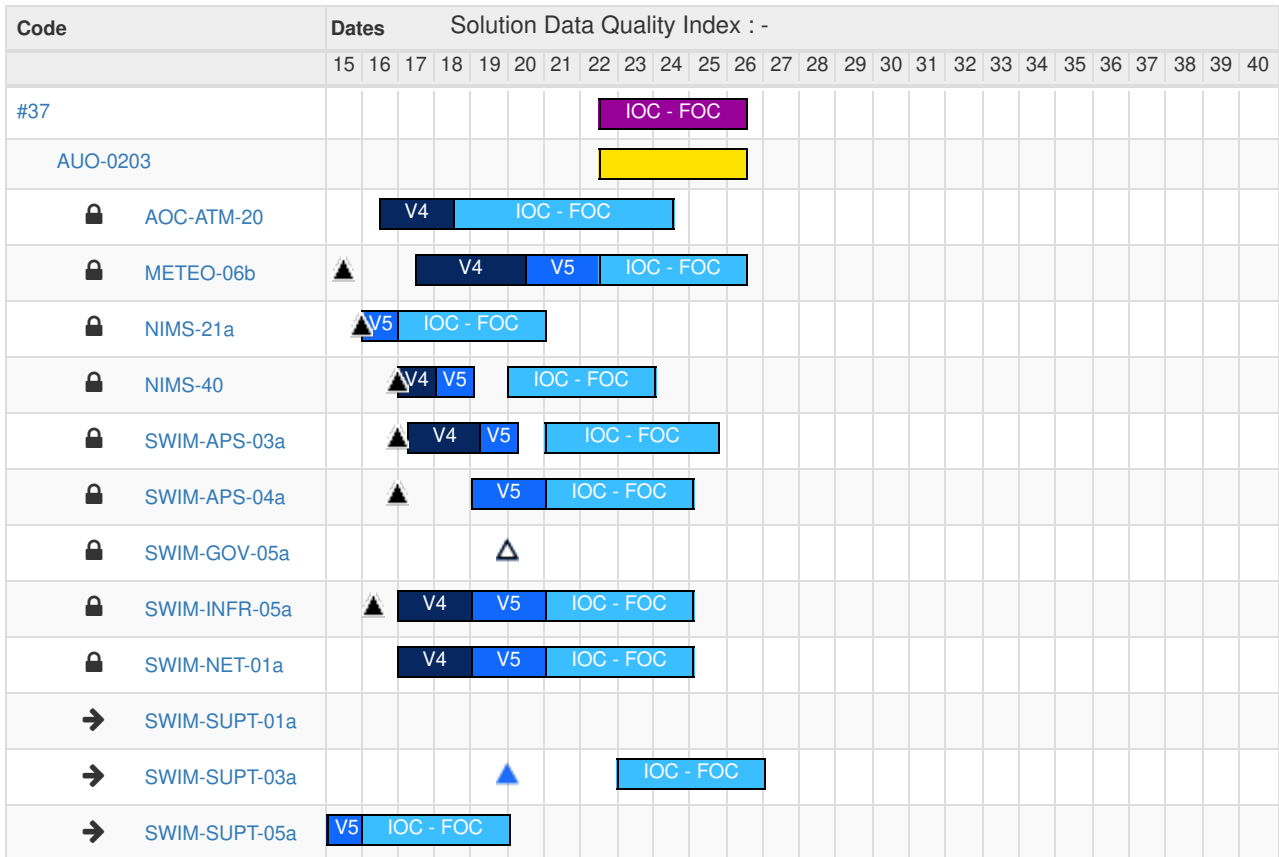
Phases: No associated data



SESAR Projects: No associated data



Operational Improvement Steps / Enablers







PCP Elements

| Code | Title | Related Elements |
|---------|---|-----------------------|
| S-AF4.2 | Collaborative NOP | SOL OI EN OBJ ICAO |
| S-AF4.4 | Automated Support for Traffic Complexity Assessment | SOL OI EN OBJ ICAO |
| S-AF5.6 | Flight information exchange | SOL OI EN OBJ ICAO |

Implementation Objectives

| Code | Title | Related Elements |
|-------|----------------------|--|
| FCM08 | Extended Flight Plan |       |

ICAO Block Modules

| Designator | Title | Related Elements |
|------------|---|---|
| B1 | | |
| B1-FICE | Increased Interoperability, Efficiency and Capacity through FF-ICE, STEP 1 application before departure |     |