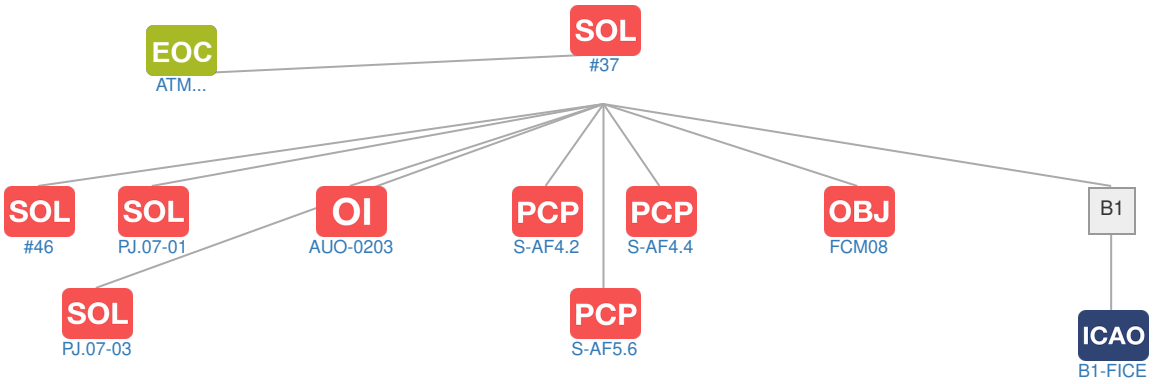
Solution #37 — Extended Flight Plan

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 in not limited to 4D points. It contains additional elements for each point of the trajectory such at 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

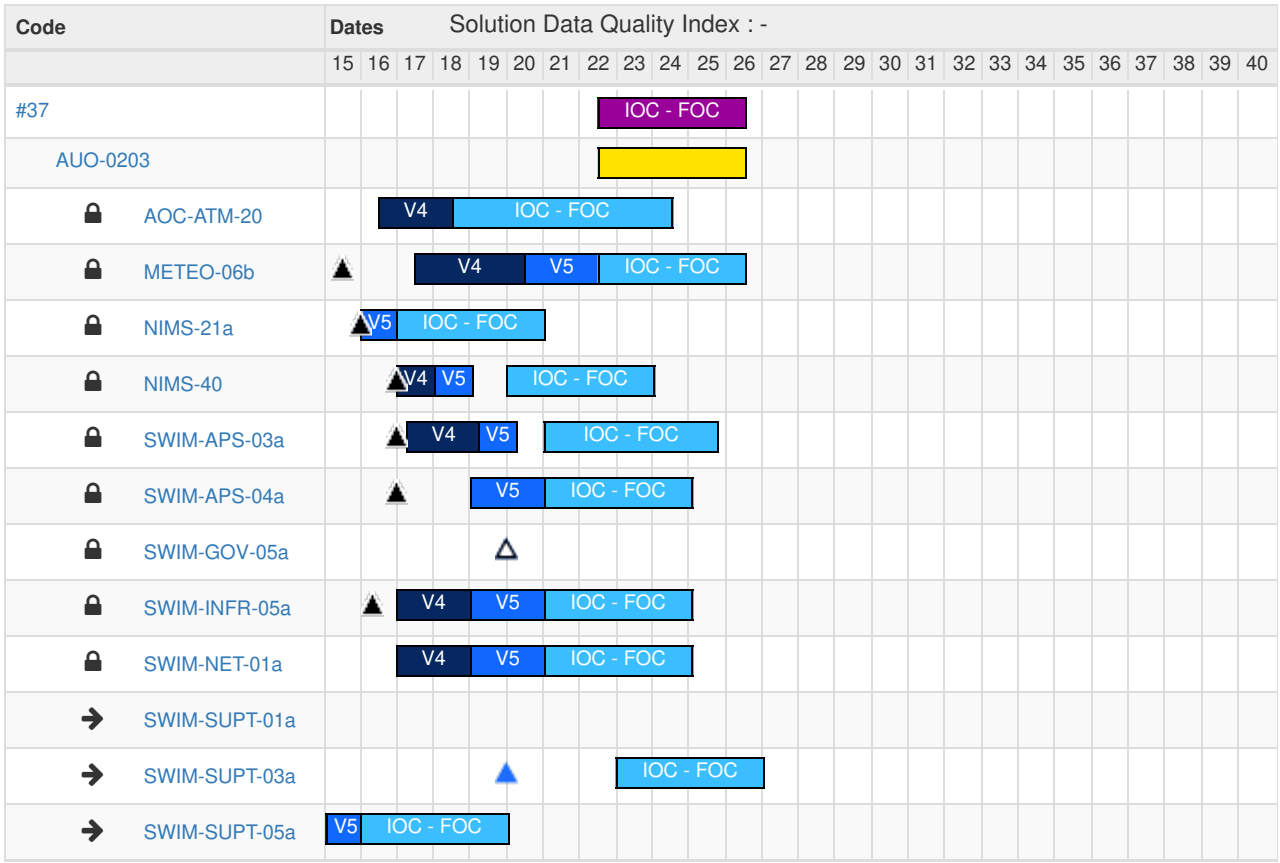


Operating Environments: No associated data

Phases: No associated data

PJ SESAR Projects: No associated data

OI Operational Improvement Steps / Enablers



PCP 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	STK SOL OI PCP ICAO

ICAO Block Modules

Designator	Title	Related Elements
B1		
B1-FICE	Increased Interoperability, Efficiency and Capacity though FF-ICE, STEP 1 application before departure	SOL OI OBJ PCP