



Solution #115 — Extended Projected Profile (EPP) availability on ground

Trajectory management is a key cornerstone of the ATM system. The better the trajectory prediction is, the better the whole ATM system will be. Nowadays there are multiple trajectory predictions held and maintained by air and ground actors. They take into account different parameters (e.g. aircraft model, route/restrictions, operating preferences & weather forecast) leading to inconsistencies and different accuracy levels depending on flight phases. These inconsistencies lead to an inefficient ATM system as a whole.

'EPP availability on ground' technological solution is a first step towards a full ground-air trajectory synchronization required for the implementation of the targeted Trajectory based operations. It allows the provision to the ground systems of the aircraft view on the planned route and applicable restrictions known to the airborne system, together with the corresponding optimal planned trajectory computed on-board and speed preferences,. This information is automatically downlinked from the airborne Flight Management System via ADS-C data link to the ground ATC unit which has subscribed to the needed service contract (e.g. Extended Projected Profile & Speed Schedule Profile contracts) and made available to the controllers.

Program SESAR1

Need for coordination -

Related to -

Date V1 Gate -

Date V2 Gate -

Date V3 Gate -

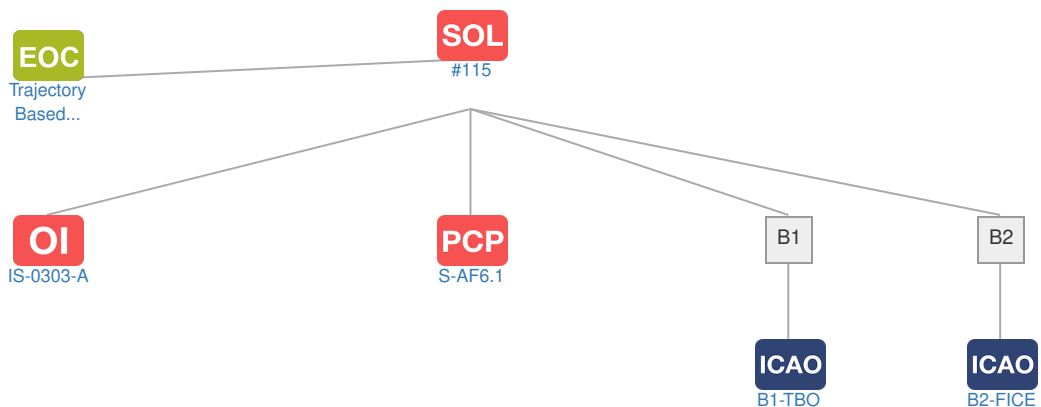
Deployment Start Date 31-12-2017

Benefits Start Date (IOC) 31-12-2022

Full Benefit Date (FOC) 31-12-2027

Context

Related Elements





ICAO Block Modules

Designator	Title	Related Elements
B1		
B1-TBO	Improved Traffic Synchronisation and Initial Trajectory-Based Operation.	SOL OI PCP
B2		
B2-FICE	Improved Coordination through multi-centre Ground-Ground Integration: (FF-ICE, Step 1 and Flight Object, SWIM)	SOL OI PCP