



Solution PJ.18-W2-56 — Improved vertical profiles through enhanced vertical clearances

The objective of this key R&D activity is to develop an automation support for ATCOs to issue vertical constraints that support more efficient flight profiles while ensuring separation provision. First step, for flight still in climb, enhanced prediction of vertical profile data are presented to ATCOs to facilitate decision making. In a second more advanced step, the ATC system would generate proposals for conflict-free clearances that take anticipated aircraft performance into account, which can be uplinked to the flight crew by ATCO. In a first step, for a certain flight still in climb, enhanced prediction of vertical profile data are presented to ATCOs to facilitate their decision making on whether using constraints in the vertical dimension is appropriate and sufficient to achieve separation (using eFPL 4D trajectory or performance data, but ideally using downlinked EPP data). In a second more advanced step, in the same situation the ATC system would generate proposals for conflict-free clearances that take anticipated aircraft performance into account, and those proposals are then presented to the ATCO for uplink to the flight crew.

Program SESAR 2020 Wave 2

Need for coordination -

Related to -

Date V1 Gate -

Date V2 Gate 31-12-2022

Date V3 Gate -

Deployment Start Date -

Benefits Start Date (IOC) -

Full Benefit Date (FOC) -

Context

Related Elements

EOC

Trajectory
Based...

SOL

PJ.18-W2-
56

DS

Improved
vertical...

PJ

PJ.20
AMPLE



Operating Environments: No associated data



Phases: No associated data



SESAR Projects

Code	Title	Related Elements
PJ.20 AMPLE	ATM Master Plan Maintenance	SOL



Operational Improvement Steps / Enablers: No associated data



PCP Elements: No associated data



Implementation Objectives: No associated data



ICAO Block Modules: No associated data