



# AOM-0501 — Free Routing for Flights both in cruise and vertically evolving within low to medium complexity environments

Free routing corresponds to the ability of the airspace user to plan and re-plan a route according to the user-defined segments within significant blocks of Free Route Airspace (i.e. multiple FIR AOs (areas of interest) or FABs) where airspace reservations are managed in accordance with AFUA principles. Free Routing User defined segments are segments of a great circle connecting any combination of two user-defined or published waypoints, within low to medium traffic complexity environments

**Rationale** Free Routing provides airspace users with significant opportunities to optimize their associated flights in line with individual operator business needs and military requirements. This OI step allows airspace users to plan flight trajectories without reference to a fixed ATS route network or published direct segment within low to medium complexity environments .

Additional infrastructure might be required locally and regionally to establish Free Routing Airspace. Efficient Free Routing operations, especially across boundaries require ground system support to allow management of flights along user-defined segments without mandatory Coordination Points to be overflowed, in particular for:

- Flight data processing
- ATC tools to support Coordination of flights

Potential increase in Controller workload associated with individual trajectory interactions in a non-published route airspace environment should be counterbalanced with controller tools for conflict detection and resolution. Initial SWIM functionality could contribute to further improve performance.

Demand & Capacity Balancing activities within both the planning and execution phases should include INAP (Integrated Network and Extended ATC Planning function). Airspace management processes in planning and execution phases (balancing Military & Civil airspace needs) are required to efficiently manage this more dynamic environment.

**Forecast V3 end date** -

**Benefits start date (IOC)** 31-12-2020

**Full benefits date (FOC)** 01-10-2025

**Current Maturity Level** V3

**Solution Data Quality Index** -

**Current Maturity Phase** R&D

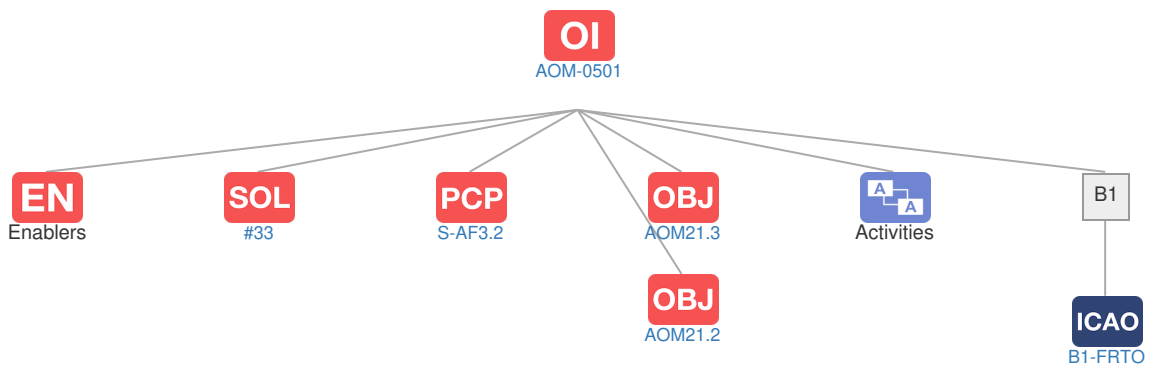
**Scope** Local

**Release** R5

**PCP Status** PCP

## Context

### Related Elements









## ICAO Block Modules

Designator	Title	Related Elements
B1		
B1-FRTO	Improved Operations through Optimized ATS Routing	<b>SOL</b> <b>OI</b> <b>OBJ</b> <b>PCP</b>