



# AO-0502 — Improved Operations in Low Visibility Conditions

*Improved Operations in Low Visibility Conditions through enhanced ATC procedures and/or navigation systems. LVP (Low Visibility Procedures) are collaboratively developed and are implemented at applicable airports involving in particular a harmonised application across airports and the use of optimised separation criteria. Navigation systems can be enhanced through changes applied to ILS antenna (smaller ILS sensitive and critical areas in Cat II/III) or use of MLS*

**Rationale** Operations in poor weather are responsible for considerable delays within Europe. There is considerable variance in the ways LVP are applied, and in the procedures used. There is the potential for considerable short term benefits from the collaborative development and implementation of procedures (e.g. best practices).  
ILS tuning will increase runway capacity during already limiting visibility conditions (landing aircraft will free the runway earlier). This seems even more important with the introduction of New Large Aircraft (NLA) and their effect on the ILS when taxiing near/parallel to the landing runway. Accurate and sustainable landing systems are necessary for reliable airport operations during all weather operations.  
MLS (in the short term) is less vulnerable to disruptions/interferences. Improvement in the capacity of the airport in Low Visibility condition is vital for future ATM. The critical and sensitive areas for ILS are a barrier to capacity; they are reduced by ILS, MLS and GLS but the applications Obstacle Free Zones (OFZ) have to be amended.

**Forecast V3 end date** -

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

**Full benefits date (FOC)** 31-12-2024

**Current Maturity Level** -

**Solution Data Quality Index** -

**Current Maturity Phase** R&D Finalised

**Scope** Local

**Release** -

**PCP Status** -

## Context

### Related Elements



**EN** Enablers

Code	Dates																																					
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40												
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➔ CTE-N09																																						
➔ CTE-N10																																						
➔ PRO-069c																																						

**OI** Dependent OI Steps: No associated data

**SOL** SESAR Solutions: No associated data

**PCP** PCP Elements: No associated data

**OBJ** Implementation Objectives: No associated data

**ICAO** ICAO Block Modules: No associated data