



A/C-02b — Enhanced positioning using multi constellation GNSS dual frequency

Enhanced precision and availability/continuity of positioning (based on GNSS dual frequency, Galileo, GPS L5) on airport surface and in flight.

Category SYSTEM

Stakeholder Airspace User

Civil

- Civil Scheduled Aviation
- Civil Business Aviation-Fixed Wing
- Civil Business Aviation-Rotorcraft

Military

- Military Transport
- Military Fighter

V3 End 31-12-2022

V4 Start 31-12-2024

V5 Start 31-12-2026

V4 End 31-12-2026

V5 End 31-12-2026

Airspace User: 31-12-2026

Civil

- Civil Scheduled Aviation: 31-12-2026
- Civil Business Aviation-Fixed Wing: 31-12-2026
- Civil Business Aviation-Rotorcraft: 31-12-2026

Military

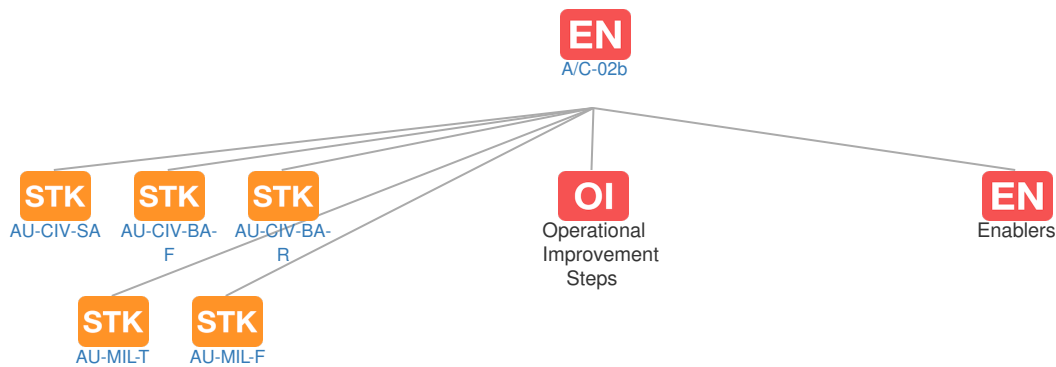
- Military Transport: 31-12-2027
- Military Fighter: 31-12-2027

IOC 31-12-2026

FOC 31-12-2032

Context

Related Elements



OI Operational Improvement Steps




Code	Benefits start date (IOC) - Full benefit date (FOC)																										
	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	
A/C-02b									▲		V4																
🔒 AO-0505-B																											
🔒 AO-0607																											
🔒 AUO-0608																											
🔒 POI-0021-AUO																											
➔ AO-0308																											
➔ AO-0319																											
➔ AO-0320																											
➔ AO-0321																											
➔ AO-0322																											
➔ AO-0331																											
➔ AUO-0406																											

EN Dependent Enablers

Relationship	Code	Title	Related Elements
Has predecessor	A/C-02a	Enhanced positioning using GBAS single frequency	STK OI EN DS
Has predecessor	A/C-56a	Flight management and guidance for Precision Approach GBAS CATII/III using GPS L1	STK OI EN DS
Has successor	A/C-06	Flight management and guidance for LPV approach based on SBAS	STK OI EN DS
Has successor	A/C-07	Flight management and guidance for RNP transition to ILS/GLS/LPV	STK OI EN DS PCP
Is synchronised with	A/C-56b	Flight management and guidance to support GBAS CATII/III using dual GNSS	STK OI EN
Is synchronised with	CTE-N06b	EGNOS V3	OI EN OBJ DS ⚙️
Is synchronised with	CTE-N07c	GBAS Cat II/III based on Multi-Constellation / Multi-Frequency (MCMF) GNSS (GPS + GALILEO / L1 + L5)	STK OI EN DS ⚙️
Enabled by	BTNAV-STD-04	Galileo Open Service in ICAO provisions	EN
Enabled by	BTNAV-STD-05	GPS L5 service in ICAO provisions	EN

PCP PCP Elements: No associated data

STK Stakeholders

Code	Title	Related Elements
AU	Airspace User	EN
AU-CIV-BA-F	Civil Business Aviation-Fixed Wing	EN
AU-CIV-BA-R	Civil Business Aviation-Rotorcraft	EN
AU-CIV-SA	Civil Scheduled Aviation	EN 
AU-MIL-F	Military Fighter	EN 
AU-MIL-T	Military Transport	EN 

 Standards: No associated data

OBJ Implementation Objectives: No associated data

Stakeholder Lines of Action (SLoAs): No associated data

PJ SESAR Workpackages: No associated data