

<b>Deployment Scenario Title</b>	Optimised low-level IFR routes for rotorcraft
<b>Deployment Scenario Description</b>	Optimised low-level IFR routes for rotorcraft: currently, GNSS technology enhanced by SBAS systems (without ground infrastructure), which provide the required integrity for GNSS signals, identifies the availability of specific IFR routes, with improved accuracy, reliability and accessibility, to enable rotorcraft operators to access controlled airspace. Furthermore, the ICAO PBN concept, owing to the development of the RNP1/RNP0.3 navigation applications, makes a wide range of benefits available, with the aim of enhancing rotorcraft operations and integrating them into the future ATM system.
<b>Essential Operational Change</b>	Multimodal Mobility and integration of all Airspace Users
<b>Maturity</b>	In deployment phase: Key SESAR Solution

Applicable Operating Environment			
Airport	Terminal Airspace	En-Route	Network

Timeline																								
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035			
					Deployment																			
							Benefit																	

Performance Contribution of the DS				
Capacity	Safety	Environment	Cost-efficiency	Operational efficiency

Stakeholders affected (at least one enabler to be deployed)						
ANSP		AO		AU		Network Manager
Civil	Military	Civil	Military	Civil	Military	
APP, ENR, MET	APP, ENR, MET			Scheduled, BA Fixed, BA Rotorcraft, GA, FOC		

SESAR Solutions			
Solution Code	Solution Title	Solution Description	Related Elements
#113	Optimised low-level instrument flight rules (IFR) routes for rotorcraft	Usually the rotorcraft operators have to face significant weather and terrain-related challenges...	<span style="color: red;">OI</span> <span style="color: red;">OBJ</span> <span style="color: red;">DS</span> <span style="color: green;">EOC</span>

Operational Improvement Steps			
OI Step Code	OI Step Title	OI Step Description	Related Elements
AOM-0810	Integration into the TMA route structure of optimised Low Level IFR route network for rotorcraft using RNP-1/RNP-0.3	In controlled airspace (TMA) Rotorcraft low altitude RNP-1/RNP-0.3 IFR routes are strategically...	<span style="color: red;">SOL</span> <span style="color: red;">EN</span> <span style="color: red;">OBJ</span> <span style="color: red;">DS</span>

Enablers						
Required/ Optional	New/ Inherited	Develop/ Use	Enabler Code	Enabler Title	Enabler Description	Related Elements
🔒			A/C-04b	Flight management and guidance for RNP 0.3 (Category H(rotorcraft)) in all phases of flight, except final approach and initial missed approach	The helicopter community identified a need for a specification that has a single accuracy of...	STK OI DS
🔒			PRO-258	ATC procedure to handle low level IFR routes for rotorcraft	Design of ATC routes (low level IFR routes) to manage the climbing and descending flows from and...	STK OI DS
➔			METEO-05b	Generate and provide MET information relevant for TMA and En-route related operations (PCP)	ATM-MET system acquiring, generating, assembling and providing Meteorological (MET) information...	STK OI EN DS PCP