


Deployment Scenario Title	Optimised route network using advanced RNP
Deployment Scenario Description	-
Essential Operational Change	Fully Dynamic and Optimised Airspace
Maturity	Additional SESAR Solutions in deployment


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

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	
TWR, APP, ENR, CNS, AIS	TWR, APP, ENR			Scheduled, BA Fixed, GA	Transport	Network Manager

SESAR Solutions			
Solution Code	Solution Title	Solution Description	Related Elements
#10	Optimised Route Network using Advanced RNP	Based on Advanced-RNP navigation specification, design of optimised routes e.g spaced parallel...	

Operational Improvement Steps			
OI Step Code	OI Step Title	OI Step Description	Related Elements
AOM-0404	Optimised Route Network using Advanced RNP	Advanced RNP is implemented and supports enhancements of route structure. Spacing between routes...	

Enablers						
Required/ Optional	New/ Inherited	Develop/ Use	Enabler Code	Enabler Title	Enabler Description	Related Elements
🔒			A/C-04a	Flight management and guidance for Advanced RNP	Flight management and guidance for Advanced RNP i.e. RNP1 with more deterministic FRT in...	STK OI EN DS
🔒			AIMS-14	Set up a digital data chain to ensure the Aeronautical Information data provision into on-board avionic systems	Ensure the distribution of aeronautical information from Aeronautical Information sources using...	STK OI EN DS
🔒			CTE-N08	DME Ground Infrastructure optimisation	Optimisation of DME ground infrastructure to support RNAV1 and main reversionary capability in...	STK OI OBJ DS PCP ⚙️
➔			CTE-N01	GPS L1/L5	Modernised GPS constellation broadcasts the civilian use signals in two different frequency bands...	STK OI DS PCP ⚙️
➔			CTE-N02	GALILEO E1/E5	GALILEO Open Service broadcasted in Dual-Frequency (E1/ E5) will be used in ...	OI EN DS ⚙️
➔			CTE-N03	GLONASS-K	Modernised GLONASS constellation (GLONASS-K) provides additional satellite navigation signals...	OI EN ⚙️
➔			CTE-N04	BEIDOU B1/B5	Dual-frequency (B/B5) BEIDOU constellation (B1 + B5). provides additional satellite navigation...	OI EN ⚙️
➔			CTE-N12	VOR/DME MON (Minimum Operational Network)	VOR/DME MON (Minimum Operational Network) supports an emergency back-up mode in case of GNSS...	STK OI
➔			CTE-N13a	A-PNT (Alternative Positioning Navigation and Timing)	New or enhanced technologies enable the provision of A-PNT (Alternative Positioning Navigation...	STK OI EN
➔			CTE-NGOV01	Ground Nav aids Optimisation/Rationalisation Plans	Plans for the optimization/rationalization of the ground nav aids infrastructure are defined and...	STK OI