| 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... | OI DS EOC ICAO |

| 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... | SOL EN DS ICAO |

| 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 Navaids Optimisation/Rationalisation Plans | Plans for the optimization/rationalization of the ground navaids infrastructure are defined and... | STK OI |