

|                                 |  |
|---------------------------------|--|
| Deployment Scenario Title       | ACAS ground monitoring and presentation system |
| Deployment Scenario Description | -  |
| Essential Operational Change    | Trajectory Based Operations                    |
| 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 |                 |
| APP, ENR, CNS   |          |       |          |       |          |                 |

| SESAR Solutions |   |   |                  |
|-----------------|---|---|------------------|
| Solution Code   | Solution Title  | Solution Description  | Related Elements |
| #58             | Display and use of ACAS resolution advisory downlink on the controller working position | Controllers are automatically informed when ACAS (airborne collision avoidance system) generates... | OI DS EOC ICAO   |
| #100            | ACAS Ground Monitoring and Presentation system  | The airborne collision avoidance system (ACAS) provides resolution advisories (RAs) to pilots in... | DS EOC           |

| Operational Improvement Steps |   |   |                    |
|-------------------------------|---|---|--------------------|
| OI Step Code                  | OI Step Title   | OI Step Description   | Related Elements   |
| CM-0802                       | Display and use of ACAS resolution advisory downlink on the controller working position | Controllers are automatically informed when ACAS (airborne collision avoidance system) generates... | SOL EN DS ICAO A A |

| Enablers              |                   |                 |               |   |   |                  |
|-----------------------|-------------------|-----------------|---------------|---|---|------------------|
| Required/<br>Optional | New/<br>Inherited | Develop/<br>Use | Enabler Code  | Enabler Title   | Enabler Description   | Related Elements |
| 🔒                     |                   |                 | ER APP ATC 68 | Enable Controller workstation to indicate when aircraft systems indicates an RA occurrence.                   | Provide alerting to relevant Controllers HMI when a/c under their responsibility are indicating...  | STK OI EN DS     |
| 🔒                     |                   |                 | REG-HNA-01    | Extension of the ACAS mandate   | Regulatory Provisions for the introduction of TCAS II software Version 7.1 for aircraft other...    | OI EN DS         |
| 🔒                     |                   |                 | REG-HNA-02    | Regulatory Provisions on ATC Procedures to provide a common response to down linked airborne TCAS/ACAS alerts | -   | OI EN DS         |
| 🔒                     |                   |                 | PRO-060       | ATC Procedures to provide a common response to down linked airborne TCAS/ACAS alerts                          | ATC Procedures-TCAS/ACAS  | OI EN DS         |
| 🔒                     |                   |                 | REG-HNA-01    | Extension of the ACAS mandate   | Regulatory Provisions for the introduction of TCAS II software Version 7.1 for aircraft other...    | OI EN DS         |
| 🔒                     |                   |                 | REG-HNA-02    | Regulatory Provisions on ATC Procedures to provide a common response to down linked airborne TCAS/ACAS alerts | -   | OI EN DS         |
| 🔒                     |                   |                 | REG-HNA-01    | Extension of the ACAS mandate   | Regulatory Provisions for the introduction of TCAS II software Version 7.1 for aircraft other...    | OI EN DS         |
| 🔒                     |                   |                 | REG-HNA-02    | Regulatory Provisions on ATC Procedures to provide a common response to down linked airborne TCAS/ACAS alerts | -   | OI EN DS         |
| ➔                     |                   |                 | CTE-S03g      | ACAS monitoring technology  | 'ACAS monitoring System' is a network of receivers (modified ADS-B ground stations), ACAS server... | STK OI           |