

|                                 |  |
|---------------------------------|--|
| Deployment Scenario Title       | Advanced automated MET system            |
| Deployment Scenario Description | -  |
| Essential Operational Change    | Digital AIM and MET Services             |
| Maturity                        | Additional R&D Activities in development |

| 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, MET  | TWR      | APT Operator | APT Operator |       |          |                 |

| SESAR Solutions |                               |  |  |
|-----------------|-------------------------------|--|--|
| Solution Code   | Solution Title                | Solution Description   | Related Elements                         |
| PJ.05-05        | Advanced Automated MET System | Advanced Automated MET System will significantly enhance current possibilities of automated... | <b>PJ</b> <b>OI</b> <b>DS</b> <b>EOC</b> |

| Operational Improvement Steps |   |  |                                |
|-------------------------------|---|--|--------------------------------|
| OI Step Code                  | OI Step Title   | OI Step Description  | Related Elements               |
| POI-0001-MET                  | Improved Weather Awareness through Enhanced Automated MET observation | Weather Awareness is improved through Enhanced Automated MET capabilities that will significantly... | <b>SOL</b> <b>EN</b> <b>DS</b> |

| Enablers              |                   |                 |                  |   |  |                  |
|-----------------------|-------------------|-----------------|------------------|---|--|------------------|
| Required/<br>Optional | New/<br>Inherited | Develop/<br>Use | Enabler Code     | Enabler Title   | Enabler Description  | Related Elements |
| 🔒                     |                   |                 | AERODROME-ATC-92 | Real-time Airport Weather Observation service with Artificial Intelligence algorithms | ATM-MET sub-system targeting to mitigate drawbacks in real-time airport weather monitoring....       | STK OI DS        |
| 🔒                     |                   |                 | HUM-020          | MET Observer  | MET Observer is responsible for regular observation of current weather situation at the airport...   | STK OI DS        |
| 🔒                     |                   |                 | METEO-10a        | VIS Camera for visibility measurement and cloud monitoring                            | VIS camera imagery supports MET observer especially in observation of cloud cover (in daylight),...  | STK OI DS        |
| 🔒                     |                   |                 | METEO-10b        | IR Camera for cloud monitoring  | IR camera imagery supports MET observer especially in observation of cloud cover during night and... | STK OI DS        |