

APPENDIX 4.3.8D3
IDENTIFICATION AND DEVELOPMENT OF CNS-SURVEILLANCE PROJECTS

| Operational Requirements | CNS Services | Identified projects components | Identified Tasks | To be completed | New Task | ASBU PIA | ASBU Module |
|------------------------------------|--------------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------|----------|---------------------------------|----------------------------------------------------------------------------------|
| Increase situational awareness | ASS | Implementation of Surveillance systems | Implementation of SSR Mode S | x | | 3 3 3 | B0 - ASUR B0 - SNET B0-ASEP |
| | | | Implementation of ADS-C | x | | 4 | B0- TBO |
| | | | Implementation of ADS-B (Ground & Space) | | x | 3 3 3 | B0-ASUR B0- SNET B0- OPFL B0-ASEP |
| | | | Implementation of MLAT/WAM | | x | 3 3 | B0-ASUR B0-SNET B0-ASEP |
| Seamless aeronautical surveillance | | Interconnection/ Interoperability of surveillance systems | Implement Surveillance Data Fusion (data sharing) | | x | 3 3 2 3 | B0- ASUR B0- SNET B0- FICE B0-ASEP |
| | | Establishment of Surveillance Requirements and Optimization Parameters | Implement Performance Based Surveillance (PBS) based on the Required Surveillance Performance (RSP) | | x | 3 3 3 3 4 3 3 | B0-ASUR B0-SNET B0 - FICE B0 - OPFL B0 - TBO B0 - FRTO B0-ASEP |

| PIA | Module Description | Module | Category | Priority |
|-------|---------------------------------------------------------------------------------------|-----------|----------|----------|
| PIA 2 | Increased Interoperability, Efficiency and Capacity through Ground-Ground Integration | B0 – FICE | E | 1 |
| PIA 3 | Initial capability for ground surveillance | B0 - ASUR | D | 2 |
| PIA 3 | Improved access to Optimum Flight Levels through Climb/Descent Procedures using ADS-B | B0 – OPFL | S | 2 |
| PIA 3 | Increased Effectiveness of Ground-Based Safety Nets | B0 – SNET | D | 2 |
| PIA 3 | Improved Operations through Enhanced En-Route Trajectories | B0 – FRTO | E | 1 |
| PIA 4 | Improved Safety and Efficiency through the initial application of Data Link En-Route | B0 - TBO | D | 2 |

RSP: A set of requirements for air traffic provision \, aircraft capability and operations needed to support performance- based surveillance within a defined airspace.

PBCS: Performance Base Communication & Surveillance: Doc 9869

ASS: Aeronautical Surveillance Systems
