**APPENDIX E3**
**IDENTIFICATION AND DEVELOPMENT OF CNS-SUREILLANCE 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<br>3<br>3 | B0 - ASUR<br>B0 – SNET<br>B0-ASEP |
| | | | **Implementation of ADS-C** | x | | 4 | B0- TBO |
| | | | **Implementation of ADS-B (Ground & Space)** | | x | 3<br>3<br>3 | B0-ASUR<br>B0- SNET<br>B0- OPFL<br>B0-ASEP |
| | | | **Implementation of MLAT/WAM** | | x | 3<br>3 | B0-ASUR<br>B0-SNET<br>B0-ASEP |
| **Seamless aeronautical surveillance** | | **Interconnection/ Interoperability of surveillance systems** | **Implement Surveillance Data Fusion (data sharing)** | | x | 3<br>3<br>2<br>3 | B0- ASUR<br>B0- SNET<br>B0- FICE<br>B0-ASEP |
| | | **Establishment of Surveillance Requirements and Optimization Parameters** | **Implement Performance Based Surveillance (PBS) based on the Required Surveillance Performance (RSP)** | | x | 3<br>3<br>3<br>3<br>4<br>3<br>3 | B0-ASUR<br>B0-SNET<br>B0 – FICE<br>B0 – OPFL<br>B0 - TBO<br>B0 – FRTO<br>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