

## IDENTIFICATION AND DEVELOPMENT OF CNS PROJECTS

### 1. Project Identification

AFI Region	PROJECT DESCRIPTION (DP)	DP N° XX	
Programme	Title of the Project	Start	End
<p>[CNS]</p> <p><b>Programme Facilitator:</b></p> <p><b>[ROs] : RO CNS</b></p>	<p><b>AFI SURVDATA – AFI Surveillance and Data Sharing Enhancement Initiative</b></p> <p>Project coordinator: TBD</p>	<b>01/12/2025</b>	<b>31/12/2026</b>
<b>Rationale</b>	The AFI Region is advancing toward a seamless, interoperable surveillance environment to support safe and efficient air traffic management. However, gaps remain in the deployment of modern surveillance technologies (ADS-B, MLAT, SSR-DAPS) and in the ability to share surveillance data across borders. Strengthening regional cooperation, standardizing data exchange protocols, and ensuring data integrity are essential to achieving ICAO's ASBU objectives and enhancing situational awareness across FIR boundaries.		
<b>Objective</b>	To enhance surveillance coverage and interoperability in the AFI Region through the deployment of modern surveillance technologies and the establishment of cross-border data sharing frameworks.		
<b>Scope</b>	The project covers the implementation and enhancement of air traffic surveillance services across all routing areas and regions of homogeneous traffic flow within the AFI Region. It includes all Air Traffic Control Centers involved in the provision of international civil aviation services. The implementation will be carried out in alignment with the requirements defined in the AFI Air Navigation Plan for aeronautical surveillance, ensuring consistency with ICAO standards and regional performance objectives.		
<b>Metrics</b>	<p><b>Technology-specific metrics</b></p> <p><b>a) Secondary Surveillance Radar (SSR Mode S)</b></p> <ul style="list-style-type: none"> <li>Number of SSR stations installed: <b>X</b></li> <li>Average availability of SSR stations: <b>X%</b></li> </ul> <p><b>b) Automatic Dependent Surveillance – Contract (ADS-C)</b></p> <ul style="list-style-type: none"> <li>Number of ADS-C systems installed: <b>X</b></li> <li>% of ATS units equipped with ADS-C: <b>X%</b></li> <li>Number of ADS-C interconnections implemented: <b>X</b></li> <li>% of ACCs with ADS-C interconnection: <b>X%</b></li> </ul> <p><b>c) Automatic Dependent Surveillance – Broadcast (ADS-B)</b></p> <ul style="list-style-type: none"> <li>Number of ADS-B ground stations installed: <b>X</b></li> <li>% of ATS units equipped with ADS-B: <b>X%</b></li> <li>Number of ACCs with space-based ADS-B: <b>X</b></li> <li>% of ATS units with space-based ADS-B: <b>X%</b></li> </ul> <p><b>d) Multilateration (MLAT)</b></p> <ul style="list-style-type: none"> <li>Number of MLAT systems installed: <b>X</b></li> <li>% of ATS units equipped with MLAT: <b>X%</b></li> <li>Number of MLAT interconnections implemented: <b>X</b></li> <li>% of ACCs with MLAT interconnection: <b>X%</b></li> </ul> <p><b>e) Implementation &amp; Collaboration Metrics</b></p> <ul style="list-style-type: none"> <li>Number of States with operational surveillance systems (SSR, ADS-B, ADS-C, MLAT): <b>X</b></li> <li>Number of bilateral/multilateral surveillance data sharing agreements signed: <b>X</b></li> <li>Adoption rate of the AFI Surveillance Strategy and PBS framework: <b>X%</b></li> <li>Number of States assessed and supported through technical guidance: <b>X</b></li> </ul>		
<b>Strategy</b>	All tasks will be executed by selected surveillance (SUR) experts, under the leadership of a Project-Team Coordinator and the supervision of Project Facilitators (ROs/CNS, ESAF & WACAF). The project will follow the IIM Sub-Group (IIM SG) working methodology, ensuring structured planning, execution, and reporting. Final deliverables will be submitted to the PRCC for review and, where necessary, approval. Regular coordination meetings will be held with all relevant stakeholders to support collaborative decision-making.		

	<b>Key strategic actions :</b> <ul style="list-style-type: none"> <li>Develop regional strategies for Surveillance systems (ADS-B, MLAT, SSR Mode S, and ADS-C systems) , protocols, and technical standards.</li> <li>Establish inter-State data sharing agreements and interoperability frameworks.</li> <li>Implement data integrity and performance monitoring tools.</li> </ul> <p>Once the documents and tools have been developed and validated, the project will be formally closed. However, the project team experts will remain available to support States, as needed, through targeted assistance missions conducted under separate, dedicated assistance projects.</p>
<b>Related projects</b>	<b>AFI -IATI</b>
<b>Relationship with the regional plans</b>	ASUR-B0, ASUR-B1, ASUR-B2, ACAS

## 2. Project Deliverables

Project deliverables					
Reference	Description	Responsible party	Delivery date	Status of Implementation	Comments
<b>Composition of the project team</b>					
<b>DEL01.1</b>	Selection of Project Team experts				<i>Coordinate with States and relevant organizations to nominate qualified subject matter experts with the appropriate technical background and experience to form the project team.</i>
<b>DEL01.2</b>	Project kick off meeting (online)				<i>Organize an online meeting to officially launch the project, introduce team members, outline objectives, and agree on the implementation roadmap.</i>
<b>AFI Regional Surveillance Strategy</b>					
<b>DEL02</b>	AFI Regional Surveillance Strategy				<i>Regional roadmap for interoperable surveillance deployment Defines the vision, priorities, and roadmap for surveillance modernization.</i>
<b>Documents and tools for surveillance data sharing (to be updated by the project team)</b>					
<b>DEL03.1</b>	Surveillance data sharing Framework				Includes Inter-State Surveillance Data Sharing Agreement Templates Regional Surveillance Data Sharing Protocol
<b>DEL03.2</b>	Surveillance data sharing guidelines				Best practices for integrating and sharing surveillance data including Guidelines for Surveillance Data Integrity and Performance Measurement Interoperability Compliance Assessment Checklist
<b>Capacity building / awareness</b>					
<b>DEL04</b>	Regional workshop on Surveillance data sharing				

## 3. Resources

<b>Resources required</b>	<ul style="list-style-type: none"> <li>- Selection of experts to conduct the project activities (Technical experts (CAA, ANSPs, ICAO, industry partners)</li> <li>- Funding for workshops</li> </ul>
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#### 4. Project Costing

Activities	Expenditures		
	Total	2025	2026
<b>Deliverable 1 : Composition of Project team</b>	0	0	0
Activity #1.1: Selection of experts	0	0	0
Activity #1.2: Project kick off meeting	0	0	0
<b>Deliverable 2 : AFI Regional Surveillance Strategy</b>			
Activity #2.1 : Development of AFI Regional Surveillance Strategy			
<b>Deliverable 3: Development of Documents and tools for surveillance data sharing</b>			
Activity #3.1: Surveillance data sharing Framework development			
Activity #3.2 : Surveillance data sharing guidelines development			
Activity #3.3 : Workshop for the validation of documents and tools	47,666	-	47,666
<b>Deliverable 4 : Surveillance Workshop</b>			
Activity #4.1: contribution to Surveillance workshop			
<b>Total</b>	47,666	-	47,666