

## IDENTIFICATION AND DEVELOPMENT OF CNS PROJECTS

## 1. Project Identification

AFI Region	PROJECT DESCRIPTION (DP)	DP N° XX	
Programme	Title of the Project	Start	End
<i>[CNS]</i> <b>Programme Facilitator:</b> <b>[ROs]:</b> RO CNS	<b>AFI-SPEC – AFI Aviation Spectrum Coordination and Protection Initiative</b> Project coordinator: [Name of the Project Coordinator]	<b>01/12/2025</b>	<b>30/12/2027</b>
<b>Rationale</b>	<p>The aviation sector relies on protected and interference-free access to radio frequency spectrum for critical communications, navigation, and surveillance (CNS) systems. However, increasing pressure from non-aviation spectrum users, interferences and the emergence of technologies like 5G pose risks to the integrity of aeronautical frequency bands.</p> <p>Many AFI States face challenges in coordinating spectrum use and mitigating interference due to limited technical capacity and weak coordination between civil aviation authorities and national frequency regulators. This initiative aims to strengthen national and regional capabilities to safeguard aviation spectrum and align with ICAO guidance.</p> <p>Collaboration between the CAAs and the regional office on assignment of aeronautical frequencies still needs improvement for proper monitoring of possible current future interferences that could lower safety of operation in the aviation industry.</p>		
<b>Objective</b>	To enhance the capacity of AFI States and regional bodies to coordinate, manage, and protect aviation spectrum effectively, ensuring safe and uninterrupted ANS operations.		
<b>Scope</b>	<ul style="list-style-type: none"> <li>Strengthening national coordination between CAAs and spectrum regulators</li> <li>Promoting the use of ICAO tools and guidance (e.g., Doc 9718, Frequency Finder)</li> <li>Supporting regional alignment with ICAO positions for World Radiocommunication Conferences (WRC)</li> <li>Strengthening GNSS monitoring and RFI mitigation</li> <li>Conducting technical studies on the impact of emerging technologies (e.g., 5G) on aviation spectrum</li> </ul>		
<b>Metrics</b>	Number of States with formal coordination mechanisms (e.g., MoUs) between CAAs and spectrum regulators Number of States using ICAO frequency management tools Participation rate in regional workshops on spectrum management and WRC preparation Completion of technical studies on spectrum interference (e.g., 5G impact) Adoption of ICAO WRC positions by AFI States		
<b>Strategy</b>	<p>The project will be implemented by selected spectrum and CNS experts, coordinated by a Project-Team Coordinator, and supervised by Project Facilitators (ROs/CNS, ESAF and WACAF) using the IIM SG working methodology. Deliverables will be submitted to the PRCC for review and approval. Collaborative meetings will be held with relevant stakeholders to ensure inclusive decision-making.</p> <p>Key strategic actions:</p> <ul style="list-style-type: none"> <li>Develop coordination templates and procedures for national and regional use</li> <li>Promote ICAO tools through targeted training and workshops</li> <li>Support WRC preparation through regional alignment and capacity building</li> <li>Conduct technical studies on spectrum threats and mitigation strategies</li> </ul>		
<b>Related projects</b>	SPEC		
<b>Relationship with the regional plans</b>	AFI-SPEC supports the implementation of the AFI Air Navigation Plan (ANP) and aligns with ICAO's Spectrum Strategy, Doc 9718, and ASBU modules related to CNS infrastructure. It also contributes to regional preparation for World Radiocommunication Conferences (WRC) and supports the objectives of the IIM Sub-Group under AASPG.		

## 2. Project Deliverables

Project deliverables					
Reference	Description	Responsible party	Delivery date	Status of Implementation	Comments
<b>Composition of the project team</b>					
1.1	Selection of project team experts				Coordinate with States and Organizations for the nomination of subject matter experts possessing the required qualifications and experience to compose the project team
1.1	Project launching webinar				Organize an initial webinar with the project team members to launch the activities of the project.
<b>Documents and tools for Frequency assignment coordination</b>					
2.1	CAA and Spectrum Authorities MoU/Agreement Template				Template for coordination between CAAs and national frequency regulators
2.2	Frequency assignment coordination Procedures				Procedures for frequency assignment including ICAO coordination and the use of Frequency Finder tool
2.3	Frequency interferences management procedures				
2.4	GNSS RFI reporting mechanism				In coordination with the AFI NAV MOD project
<b>Capacity building</b>					
3.1	Workshop or Webinar on Frequency Finder				Regional workshops on ICAO Doc 9718 and the Frequency Finder tool
3.1	WRC preparation Workshops				Workshops to support alignment with ICAO positions for WRC-27

## 3. Resources

<b>Resources required</b>	<ul style="list-style-type: none"> <li>- Selection of experts to conduct the project activities (Technical experts)</li> <li>- Funding for workshops</li> <li>- Commitment of beneficiary States to fund the assistance mission,</li> <li>- Commitment by States to support the coordinators and experts.</li> </ul>
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## 4. Project Costing

Activities			
	Total	2026	2027
<b>Deliverable 1</b>			
Activity #1.1 Selection of project team experts	-	-	-
Activity #1.2 Project launching webinar	-	-	-
<b>Deliverable 2</b>			
Activity #2.1 CAA and Spectrum Authorities MoU/Agreement Template			
Activity #2.2 Frequency assignment coordination Procedures			
Activity #2.3 Frequency interferences management procedures			
Activity #2.4 GNSS RFI reporting mechanism			
Activity #2.5 Workshop for the documents and tools validation	47,666		47,666
<b>Deliverable 3</b>			
Activity #3.1 Workshop or Webinar on Frequency Finder (contribution to the workshop)	-	-	-
Activity #3.2 WRC preparation Workshops			
<b>Total</b>	47,666		47,666