

INTERNATIONAL CIVIL AVIATION ORGANIZATION AFI PLANNING AND IMPLEMENTATION REGIONAL GROUP (APIRG) PROJECT COORDINATION COMMITTEE FIRST MEETING (APCC/1)

PROJECT: PROTECTION OF SPECTRUM & CNS INFRASTRUCTURE PROJECT

Coordinator: Cameroon DOMAIN: IIM

(Infrastructure & Information Management)

AFI REGION	PROJECT DESCRIPTION	REFERENCE IIMSG / Area of Routing # All		
Sub-domain	Title of the Project	Start	End	
Aeronautical Communication (COM) (ICAO Facilitator: WACAF/ESAF ROs/CNS	PROTECTION OF SPECTRUM AND CNS/ATM INFRSTRUCTURE: Development of policies, systems to protect Aeronautical spectrum and CNS infrastructures Project- Team Coordinator: Cameroon Project Team Experts (8): Senegal, IATA, ASECNA, Kenya, Mauritania, South Africa, Uganda, Côte d'Ivoire,	Month/ Year	Month/ Year	
	In the framework of the technologies Roadmap for Spectrum defined in the GANP and the AFI strategy, assist States sustain adequate resources for CNS &ATM systems operations by the effective development and implementation of relevant policies for the protection of :			
Objectives	 a) The Aeronautical Radio Frequency spectrum b) Aeronautical Communication, Navigation, Surveillance and Air Traffic Management systems and infrastructures, in accordance with the operational requirements of ICAO Annex 10 Volumes V Telecommunication, Annex 11 Air Traffic 			
	Service and the relevant supporting guidance documents (Doc. 9718Handbook on Radio Frequency Spectrum Requirements for Civil Aviation Volumes I & II).			
Scope	The provision of adequate spectrum to aeronautical CNS and ATM services will cover all airspaces involve all phases of flights and all ATCs.			
	The insurance of the electronic protection of CNS/ATM systems is currently a big subject challenging all the security of the ATM community.			
	The implementation schemes will be in accordance with the requirements of the provision of Aeronautical) spectrum as defined in the Handbook on Radio Frequency Spectrum Requirements for Civil Aviation (Doc. 9718), the forthcoming relevant document under development by the ICAO Communication Panel and the provision of the AFI Air Navigation Plan (AFI/RAN Abuja 1997).			

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	 a) Provision and protection of Adequate frequency band: Number of State having submitted ICAO position to ITU WRC to 					
Metrics	their National Authority of Regulation of Telecommunication for support: X - % of States with effective support of the National Authority of Regulation of Telecommunication to ICAO Position for ITU WRC: X%					
	 b) Cyber Security of CNS/ATM systems Number of ATCs with security system implemented: X % ATM/CNS infrastructure with protection policies and systems defined and implemented: X% 					
Outcome	Protected Radio Frequency Spectrum and CNS/ATM infrastructure supporting enhanced aeronautical operational safety, capacity and efficiency					
Strategy	All tasks will be carried out by NAV experts nominated by AFI States participating in the project, led by the Project-Team Coordinator and under the supervision of the Project Facilitators (ROs/CNS, Dakar and Nairobi) through the IIM SG working methodology. Upon completion of the tasks, the results will be sent to the Project Facilitators as a final document for submission to, and if necessary approval by the APIRG Projects Coordination Committee (APCC). For the purpose of collaborative decision-making, meetings will be held with the areas involved.					
Rationale/Justification	a) Protection of Radio frequency Spectrum: The requirements for the protection of aeronautical radio frequency spectrum are currently challenged by non-aeronautical user resulting in case of severe interferences that can jeopardize the safe provision of air navigation safety b) Protection of CNS/ATM Infrastructures: The emerging technologies widely introduced in the Aeronautical CNS/ATM safety of life related infrastructure are challenging risk of hacking that must be properly and continuously assessed and mitigated.					
Related Projects	All APIRG PIAs a	and projec	ets			
Project Deliverables	Relationship with the Regional Performance- Objectives (RPOs/PFFs) and ASBU Modules	КРІ	Responsible	Status of Implementation ¹	Date of Delivery	Comments
Protection of Spectrum and CNS/ATM Infrastructure						
Submission of ICAO Position to WRC-19 to National Authority of Regulation of Telecommunication	All Modules PFF-CNS		✓ AFI NAV Project Coordinators ✓ AFI NAV Project Team Leader		As soon as available	

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Development of policies for the Protection of CNS & ATM Infrastructure	All Modules PFF-CNS	✓ AFI NAV Project Coordinators ✓ AFI NAV Project Team Leader	December 2017	
Teleconferences, Workshops/Seminars, meetings (French and English) on Spectrum and systems protection	All Modules PFF-CNS	✓ AFI NAV Project Coordinators ✓ AFI NAV Project Team Leader	TBD	
Assessment/Mitigation of systems vulnerabilities	All Modules PFF-CNS	✓ AFI NAV Project Coordinators ✓ AFI NAV Project Team Leader	continuous	
Assessment/Reporting on the protection of spectrum and CNS/ATM Infrastructure	All Modules PFF-CNS	✓ AFI NAV Project Coordinators ✓ AFI NAV Project Team Leader	TBD	
Detailed guidance provided to States not complying with the AFI Navigation Plan	All Modules PFF-CNS	✓ AFI NAV Project Coordinators ✓ AFI NAV Project Team Leader	TBD	
List of States with Protection measures, implemented	All Modules PFF-CNS	✓ AFI NAV Project Coordinators ✓ AFI NAV Project Team Leader	TBD	

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Resources needed	 ✓ Adequate Human Resources to be appointed by States ✓ Funds to conduct meetings, Workshops, Seminars Mission regional guides and manuals. Likewise, participants must be participate in teleconferences and coordination meetings ✓ Funds for meetings with project Team Members in order propose corrective actions. States could use their human resources on NAV tests and monitoring, and, if necessary, consince the experience gained will result in an improvement 	given facilities. to assess the sources to over the fin	es to e results and conduct the ancial costs,

Grey Task not started yet

Green Activity being implemented as scheduled

Yellow Activity started with some delay, but will be implemented on time Red Activity not implemented on time; mitigation measures are required