

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)	PROTECTION OF SPECTRUM AND CNS/ATM INERCEPTION OF SPECTRUM AND CNS/ATM				
	INFRSTRUCTURE: Development of policies, systems to protect Aeronautical spectrum and CNS infrastructures	Month/	Month/		
	Project-Team Coordinator: Cameroon	Year	Year		
(ICAO Facilitator: WACAF/ESAF	Project Team Experts (8): Senegal, IATA, ASECNA, Kenya,	1 Cai	Tear		
ROs/CNS	Mauritania, South Africa, Uganda, Côte d'Ivoire,				
	In the framework of the technologies Roadmap for Spectrum defined in the GANP and				
Objectives	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: 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).				

AFI REGION	PROJECT DESCRIPTION REFERE IIMSG / A Routing		/ Area of			
Sub-domain		Title o	of the Project		Start	End
Metrics	a) Provision and protection of Adequate frequency band: Number of State having submitted ICAO position to ITU WRC to 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					
	• N • %	ITU of CNS/A (umber of 6 ATM/CN efined and	J WRC : X% TM systems ATCs with secuts Is infrastructure to the systems I implemented: X	rity system impler with protection pol	mented: X licies and syst	ems
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 proje	cts			
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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Sub-domain		Title of the Project	Start	End	
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		

AFI REGION	PROJECT DESCRIPTION	PROJECT DESCRIPTION REFERENCE IIMSG / Area Routing # A	
Sub-domain	Title of the Project	Start	End
Resources needed	 ✓ Adequate Human Resources to be appointed by States ✓ Funds to conduct meetings, Workshops, Seminars Missic reports, regional guides and manuals. Likewise, participants to participate in teleconferences and coordination meet ✓ Funds for meetings with project Team Members in order propose corrective actions. States could use their human reforeseen NAV tests and monitoring, and, if necessary, consince the experience gained will result in an improvement. 	s must be give tings. to assess the sources to over the fine	ven facilities 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