



ICAO

DOMAIN: IIM (Infrastructure & Information Management)

PROJECT: PROTECTION OF SPECTRUM

Coordinator: Uganda

| AFI REGION | PROJECT DESCRIPTION | REFERENCE IIMSG / Area of Routing # All | |
|--|---|---|------------------------|
| Sub-domain | Title of the Project | Start | End |
| <p><i>Aeronautical Communication</i> (COM)</p> <p>(ICAO Facilitator: <i>WACAF/ESAF</i> <i>ROs/CNS</i>)</p> | <p>PROTECTION OF AERONAUTICAL SPECTRUM: Development of policies, systems to provide and protect Aeronautical spectrum Project-Team Coordinator: <i>Uganda</i> Project Team Experts: <i>Uganda, Côte d'Ivoire, Ghana, Kenya, Mali, Mauritania, Senegal, South Africa, Tanzania, ASECNA, IATA</i></p> | <p>Month/ Year</p> | <p>Month/ Year</p> |
| <p>Objectives</p> | <p>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 the Aeronautical Radio Frequency spectrum in accordance with the operational requirements of ICAO Annex 10 Volumes V and the relevant supporting guidance documents (Doc. 9718 Handbook on Radio Frequency Spectrum Requirements for Civil Aviation Volumes I & II).</p> | | |
| <p>Scope</p> | <p>The provision of adequate spectrum to aeronautical CNS and ATM services will cover all airspaces involve all phases of flights and all ATCs.</p> <p>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).</p> | | |
| <p>Metrics</p> | <p>Provision and protection of Adequate frequency band:</p> <ul style="list-style-type: none"> ▪ Number of State having submitted ICAO position to ITU WRC to their National Authority of Regulation of Telecommunication for support: X <ul style="list-style-type: none"> - % of States with effective support of the National Authority of Regulation of Telecommunication to ICAO Position for ITU WRC : X% ▪ Number of States having reported on Spectrum vulnerabilities: X <ul style="list-style-type: none"> - % of States with regular reports sent to Regional offices: X% | | |
| <p>Outcome</p> | <p>Protected Radio Frequency Spectrum and CNS/ATM infrastructure supporting enhanced aeronautical operational safety, capacity and efficiency</p> | | |
| <p>Strategy</p> | <p>All tasks will be carried out by 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</p> | | |

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| | 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 | 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 | | | | | |
| Related Projects | All APIRG PIAs and projects | | | | | |
| Project Deliverables | Relationship with the Regional Performance-Objectives (RPOs/PFFs) and ASBU Modules | KPI | 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 | | <ul style="list-style-type: none"> ✓ AFI SPEC Project Coordinators ✓ AFI SPEC Project Team Leader | | As soon as available | |
| Development of policies for the Protection of Aeronautical spectrum | All Modules PFF-CNS | | <ul style="list-style-type: none"> ✓ AFI SPEC Project Coordinators ✓ AFI SPEC Project Team Leader | | December 2017 | |
| Teleconferences, Workshops/Seminars, meetings (French and English) on Spectrum and systems protection | All Modules PFF-CNS | | <ul style="list-style-type: none"> ✓ AFI SPEC Project Coordinators ✓ AFI SPEC Project Team Leader | | TBD | |
| Assessment/Mitigation of spectrum vulnerabilities | All Modules PFF-CNS | | <ul style="list-style-type: none"> ✓ AFI SPEC Project Coordinators ✓ AFI SPEC Project Team Leader | | continuous | |

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|---|--|--|---|--|--|-----|
| Sub-domain | Title of the Project | | | | Start | End |
| Assessment/Reporting on the protection of spectrum | All Modules PFF-CNS | | <ul style="list-style-type: none"> ✓ AFI SPEC Project Coordinators ✓ AFI NAV Project Team Leader | | TBD | |
| List of States with Protection measures , implemented | All Modules PFF-CNS | | <ul style="list-style-type: none"> ✓ AFI SPEC Project Coordinators ✓ AFI SPEC Project Team Leader | | TBD | |
| Resources needed | <ul style="list-style-type: none"> ✓ Adequate Human Resources to be appointed by States ✓ Funds to conduct meetings, Workshops, Seminars Missions and to translate reports, regional guides and manuals. Likewise, participants must be given facilities to participate in teleconferences and coordination meetings. ✓ Funds for meetings with project Team Members in order to assess the results and propose corrective actions. States could use their human resources to conduct the foreseen Spectrum monitoring, and, if necessary, cover the financial costs, since the experience gained will result in an improvement of their own systems. | | | | | |

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- 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*