



ICAO

DOMAIN: IIM (Infrastructure & Information Management)

COM PROJECT.2: Implementation of Ground/Ground communication (AFTN, AMHS)

Project Team Coordinator: Nigeria

AFI REGION	PROJECT DESCRIPTION	REFERENCE IMSG / Area of Routing # All	
Sub-domain	Title of the Project	Start	End
<i>Aeronautical Communication (COM)</i> (ICAO Facilitator: WACAF/ESAF ROs/CNS)	GROUND/GROUND COMMUNICATION : Implementation of Ground/ground communication aimed at ensuring operational traffic data flow and Information management (FPLs, OPMETS, NOTAM) Project-Team Coordinator: <i>Nigeria</i> Project Team Experts: <i>Nigeria, Côte d'Ivoire, Cameroon, Ghana, Seychelles, Senegal, Kenya, Mauritania, ASECNA, IATA, Nigeria, Botswana, Togo, Uganda</i>	Month/ Year	Month/ Year
Objectives	In the framework of the technologies Roadmap for Communication defined in the GANP and the AFI strategy assist States in the implementation of : a) Aeronautical Fixed Service Network (AFTN) b) Air Traffic Service Message Handling System (AMHS); in accordance with the operational requirements of Annex 3 Aeronautical Meteorology, Annex 10 Volume II Aeronautical telecommunication, Annex 11, Air Traffic Service, Annex 15 Aeronautical Information Service, and the relevant supporting guidance documents (Doc 9896 Manual for the ATN using IPS Standards and Protocols, Doc 9880, Manual on Detailed Technical Specifications for the Aeronautical Telecommunication Network (ATN) using ISO/OSI Standards and Protocols Doc 9694 Manuel on Air Traffic Services Data link Applications		
Scope	The exchange of aeronautical time sensitive operational data will cover all Air Traffic control Centers involved in the provision of air avigation service for international civil aviation. The implementation scheme will be in accordance with the requirements of the provision of Aeronautical fixed Service (AFS) as defined by the AFI Air Navigation Plan (AFI/RAN Abuja 1997).		

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Metrics	a) AFTN: Number of AFTN circuits implemented: X - <i>Average availability of AFTN circuits : X%</i> b) AMHS: ▪ Number of AMHS systems installed: X - <i>% of ATS units with AMHS: X%</i> ▪ Number of AMHS interconnections implemented, - <i>% of ACCs with AMHS systems interconnection implemented: X</i>		
Outcome	Ground/Ground coordination communication supporting enhanced aeronautical operational safety, capacity and efficiency		
Strategy	All tasks will be carried out by COM 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.		
Justification	a) AFTN: The requirements for AFTN are contained in the AFI Air Navigation Plan (ANP), FASID TABLE CNS 1A (AFTN Plan) and AFTN circuits have been implemented in accordance with this AFI Rationalized Plan. Significant improvements are noted, notably with the implementation of aeronautical satellite telecommunications. However the non-availability of AFTN encountered from time to time results from the obsolescence of some VSAT technologies b) AMHS: The introduction of automated Air Traffic Management systems in the region associated with surveillance data processing systems with possible automation of the transfer and coordination of Air Traffic between air traffic centers require an available digital ground/ground communication system. In the other hand the requirements of aeronautical information and aeronautical meteorological data exchange rely on the availability of a bit oriented digital message handling system with enough capacity of transportation, switching and buffering. The implementation of AMHS will bring more flexibility and increase the availability aeronautical data flow in the framework of a System Wide Information Management (SWIM) coordination communication.		
Related Projects	All APIRG projects specifically related to: ✓ PIA2-Increased Interoperability, Efficiency and Capacity through Ground-Ground Integration (B0-FICE) ✓ PIA3-Increased effectiveness of ground based safety nets (B0-SNET) ✓ PIA3- Air Traffic Situational Awareness(ATSA) (B0-ASEP)		

Project Deliverables	Relationship with the Regional Performance-Objectives (RPOs/PFFs) and ASBU Modules	KPI	Responsible	Status of Implementation ¹	Date of Delivery	Comments
Aeronautical Fixed Service (AFTN)						
Restauration/Improvement of the availability of AFTN Failing circuits	AFI B0-FICE AFI B0-ASEP AFI B0-SNET PFF-CNS		✓ AFI COM Project Coordinators ✓ AFI COM Project Team Leader		December 2017	
Implementation/Activation of AFTN Circuits	AFI B0-FICE AFI B0-ASEP AFI B0-SNET PFF-CNS		✓ AFI COM Project Coordinators ✓ AFI COM Project Team Leader		December 2017	
Air Traffic Service Message Handling System (AMHS)						
Teleconferences, Workshops/Seminars, meetings (French and English) on AMHS systems operation and their implementation scheme	AFI B0-FICE AFI B0-ASEP AFI B0-SNET PFF-CNS		✓ AFI COM Project Coordinators ✓ AFI COM Project Team Leader		TBD	
Implementation/interconnection and operation of AMHS systems	AFI B0-FICE AFI B0-ASEP AFI B0-SNET PFF-CNS		✓ AFI COM Project Coordinators ✓ AFI COM Project Team Leader		TBD	
Assessment/Reporting on the operation of AMHS systems and operation	AFI B0-FICE AFI B0-ASEP AFI B0-SNET PFF-CNS		✓ AFI COM Project Coordinators ✓ AFI COM Project Team Leader		TBD	
Detailed guidance provided to States not complying with the AFI AFS Plan	AFI B0-FICE AFI B0-ASEP AFI B0-SNET PFF-CNS		✓ AFI COM Project Coordinators ✓ AFI COM Project Team Leader		TBD	

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List of States with AFTN and AMHS, implemented	AFI B0-FICE AFI B0-ASEP AFI B0-SNET PFF-CNS		✓ AFI COM Project Coordinators ✓ AFI COM Project Team Leader		TBD	
Resources needed	✓ 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 COIM tests and 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