

PROJECT: AIR/GROUND COM PROJECT

Coordinator: South Africa

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	GROUND/GROUND COMMUNICATION : Implementation of Air/Ground communication aimed at ensuring Air traffic control Project-Team Coordinator: South Africa Project Team Experts (13): Côte d'Ivoire, Cameroon, Ghana, Seychelles, Senegal, Kenya, Mauritania, ASECNA, IATA, Nigeria, Botswana, Togo, a, Uganda	Month/ Year	Month/ Year			
	In the framework of the technologies Roadmap for Communication defined in the GANP and the AFI strategy assist States in the implementation of Aeronautical Mobile Service through :					
	a) High Frequency/Very High Frequency (HF/VHF) voice Communication					
Objectives	b) High Frequency/Very High Frequency Data link communication (HF/VHF DL)					
Objectives	c) Controller/Pilot Data Link Communication (CPDLC)					
	In accordance with the operational requirements of ICAO Annex 10 Volumes II & III Aeronautical Telecommunication, Annex 11 Air Traffic Service and the relevant supporting guidance documents (Doc 4444 Procedures for Air Navigation Service (PANSATM) Doc 9694 Manuel on Air Traffic Services Data link Applications, Doc 10037 Global Operational Data Link Document (GOLD)					
ScopeThe provision of air/ground communication between Pilots and ATCOs will cov all Airspaces and 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 mobile Service (AMS) as defined by the AFI Air Navigation Plan (AFI/RAN Abuja 1997).					
Metrics	 a) HF/VHF Voice & Data Link: Number of Routes covered by HF/VHF communication : X Average availability of HF/VHF voice : X% Number of HF/VHH DL station implemented Average availability of HF/VHF DL : X% b) CPDLC: Number of ATCs with CPDLC systems installed: X Average availability of CPDLC Links : X% 					



WP1	10-A	PPN	DX	С
-----	------	-----	----	---

		WF10-AFFNDA C					
AFI REGION	PROJECT DESCRIPTION IIMSG / A Routing						
Sub-domain	Title of the Project	Start	End				
Outcome	Air/Ground communication supporting enhanced aeronautical operational safety capacity and efficiency						
Strategy	All tasks will be carried out by COM experts nominated by AI the project, led by the Project-Team Coordinator and under Project Facilitators (ROs/CNS, Dakar and Nairobi) through methodology. Upon completion of the tasks, the results will Facilitators as a final document for submission to, and if nec APIRG Projects Coordination Committee (APCC). For the p decision-making, meetings will be held with the areas involved.	the supervi- the IIM S be sent to cessary appro- purpose of c	ision of the G working the Project oval by the collaborative				
Rationale/Justification	 a) HF/VHF Voice: The requirements for HF/VHF are consultation Plan (ANP), FASID TABLE CNS 2A (Aeronautical Aeronautical Mobile Satellite service-AMS &AMSS and Statis implemented in accordance with this AFI Air Navigation improvements are noted, notably with the implementation of telecommunications. However the non-availability of Remote time to time results from the obsolescence of some VSAT technology (CPDLC: The introduction of datalink communication with surveillance data processing systems with possible automatic coordination of Air Traffic between air traffic centers requirements are noted messages and increase the at exchanges between ATCOs and pilots. 	cal Mobile S attions circuit tion Plan. of aeronauti VHF encou- ologies. for HF/VHF in the region attion of the ire an avail PDLC will	Service and s have been Significant cal satellite ntered from 7 Data Link n associated transfer and able digital bring more				
Related Projects	 All APIRG projects specifically related to: PIA1-Improve Traffic flow through Runway Sequencing (AMAN/DMAN)- FRSEQ PIA1-Increased Runway Throughput through optimized Wake Turbule Separation - B0-WAKE PIA1- Improved Airport Operations through Airport – B0-ACDM PIA2- Service Improvement through Digital Aeronautical Information Management- B0-DIAM PIA2-Meteorological information supporting enhanced operational efficiency and safety- B0- MET PIA3-Air Traffic Situational Awareness(ATSA)- B0- ASEP PIA3-Improved Operations through Enhanced En-Route Trajectories- BO-FRTO PIA3-Improved flow performance through planning based on Network-wide view- B0-NOPS. PIA3- Improved access to optimum Flight levels through Climb/Descent 						



WP10-APPNDX C

	۲۹۰۰ WPIU-APPNDA C							
AFI REGION	PROJECT DESCRIPTION				REFERENCE IIMSG / Area of Routing # All			
Sub-domain	Title of the Project				Start	End		
	 ✓ PIA4- Improved Safety and Efficiency through the initial application of Data Link En-Route- B0-TBO. ✓ PIA4-Improved flexibility and Efficiency in Decent provides (CDO) - B0-CDO. 							
	 ✓ PIA4-Improved Flexibility and Efficiency Departure profiles-Continuous Climb Operations (CCO)-B0-CCO 							
Project Deliverables	Relationship with the Regional Performance- Objectives (RPOs/PFFs) and ASBU Modules	КРІ	Responsible	Status of Implementation ¹	Date of Delivery	Comments		
	F	IF/VHF/	CPDLC					
Implementation of HF &VHF stations (Voice & data Link)	AFI B0-ASEP AFI B0-FRTO AFI B0-CDO AFI B0-CCO PFF-CNS		 ✓ AFI COM Project Coordinators ✓ AFI COM Project Team Leader ✓ AFI COM 		December 2019			
Implementation/Operation of CPDLC Circuits	AFI B0-ASEP AFI B0-FRTO AFI B0-CDO AFI B0-CCO. PFF-CNS		 ✓ AFI COM Project Coordinators ✓ AFI COM Project Team Leader 		December 2019			
Teleconferences, Workshops/Seminars, meetings (French and English) on VHF/CPDLC systems operation and their implementation scheme	AFI B0-ASEP AFI B0-FRTO AFI B0-CDO AFI B0-CCO PFF-CNS		 ✓ AFI COM Project Coordinators ✓ AFI COM Project Team Leader 		TBD			
Implementation/sharing and operation of Remote VHF systems	AFI B0-ASEP AFI B0-FRTO AFI B0-CDO AFI B0-CCO PFF-CNS		 ✓ AFI COM Project Coordinators ✓ AFI COM Project Team Leader 		TBD			



AFI REGION	PROJECT DESCRIPTION				REFERENCE IIMSG / Area of Routing # All	
Sub-domain	Title of the Project					End
Assessment/Reporting on the operation of Air ground communication systems and operation	AFI B0-ASEP AFI B0-FRTO AFI B0-CDO AFI B0-CCO PFF-CNS	✓ AFI C	ct linators COM ct Team		TBD	
Detailed guidance provided to States not complying with the AFI AMS Plan	AFI B0-ASEP AFI B0-FRTO AFI B0-CDO AFI B0-CCO PFF-CNS	✓ AFI C	ct linators COM ct Team		TBD	
List of States with VHF and CPDLC, implemented	AFI B0-ASEP AFI B0-FRTO AFI B0-CDO AFI B0-CCO PFF-CNS	✓ AFI C	ct linators COM ct Team		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. 					

WP10-APPNDX C

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