SURVEILLANCE PROJECT

Coordinator: Ghana 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	Surveillance: Implementation of Surveillance systems aimed at improving air traffic situational awareness Project Team Coordinator: Ghana Project Team Experts (11): Ghana, South Africa, Cameroon, Ghana, Senegal, Nigeria, Mauritania, Seychelles, IATA, ASECNA, Uganda	Month/ Year	Month/ Year	
Objectives	In the framework of the technologies Roadmap for Surveillance defined in the GANP and the AFI strategy, assist States in the implementation of: a) Secondary Surveillance Radar Mode S (SSR) in accordance with the operational requirements of Annex 11, Air Traffic Service, Doc 4444 Procedures for air Navigation services and the provision of Annex 10 Volume IV and its supporting Documents b) Automatic Dependent Surveillance Contract (ADS-C) c) Automatic Dependent Surveillance Broadcast (ADS-B) ground and space based d) Multilateration (Mlat)			
Scope	The provision of air traffic surveillance will cover all areas of routing and homogeneous traffic flow in the AFI Region and will adress all 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 surveillance as defined by the AFI Air Navigation Plan (AFI/RAN Abuja 1997).			

	Appendix 3.3.1N					
AFI REGION	PROJECT DESCRIPTION REFE IIMSG Routi					
Sub-domain	Title of the Project	Start	End			
Metrics	ADS-B: Number of SSR stations installed: X - Average availability of SSR stations: X% b) ADS-C: Number of ADS-C systems installed: X - % of ATS units with ADS-C: X% Number of ADS-C interconnections implemented, - % of ACCs with ADS-C systems interconnections X c) ADS-B: Number of ADS-B stations installed: X - % of ATS units with ADS-B: X% d) Mlat: Number of Mlat systems installed: X - % of ATS units with Mlat: X% Number of Mlat interconnections implemented, - % of ACCs with Mlat systems interconnections					
Outcome	Surveillance service supporting enhanced aeronautical operation efficiency	nal safety, ca	apacity and			
Strategy	All tasks will be carried out by SUR experts nominated by AF the project, led by the Project-Team Coordinator and under the s Facilitators (ROs/CNS, Dakar and Nairobi) through the IIM SO Upon completion of the tasks, the results will be sent to the Project document for submission to, and if necessary approval by Coordination Committee (APCC). For the purpose of collaborations will be held with the areas involved.	upervision of working meet Facilitator the APIRO	the Project ethodology. rs as a final G Projects			
Justification	 The requirements for surveillance systems (SSR Mode S, ADS contained in the strategy of implementation of the surveillance systems). a) SSR Mode S: In continental airspace the provision of SSR M. Traffic Centers the capacity to increase the surveillance of air capacity and efficiency. b) ADS-C: The introduction of ADS-C in oceanic and continent improve air navigation service by enabling the improve organization, the flexibility of routing. c) ADS-B: The introduction of ADS-B in continental air same level of service as given by SSR with cost effectiveness combine the advantage of both ADS-C and SSR. d) Mlat: The introduction of Mlat will in the terminal areas sureffectiveness SSR Mode S 	ems in the Al Iode S will g traffic enhance al remote airs vement of espace will p ess. ADS-B	FI Region ive the Air cing safety, spaces will the space provide the Space will			

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AFI REGION	PROJECT DESCRIPTION			REFERENCE IIMSG / Area of Routing # All		
Sub-domain	Title of the Project			Start	End	
	All APIRG projects specifically related to:					
Related Projects	✓ PIA3-Increased effectiveness of ground based safety nets (B0-ASUR , B0 – SNET , B0-ASEP)					
	✓ PIA4- Efficient Flight Path – Through Trajectory-based Operations (B0-TBO) Relationship					
Project Deliverables	with the Regional Performance- Objectives (RPOs/PFFs) and ASBU Modules	КРІ	Responsible	Status of Implementation ¹	Date of Delivery	Comments
	Secondary Surv	eillance l	Radar Mode S (S	SSR)		
Implementation of SSR Mode S	AFI B0-ASUR, AFI B0 -SNET, AFI B0-ASEP AFI B0-ASEP AFI B0-SNET PFF-CNS		✓ AFI SUR Project Coordinators ✓ AFI SUR Project Team Leader		December 2017	
Restauration/Improvement of the availability of SSR Systems	AFI B0-ASUR, AFI B0 -SNET, AFI B0-ASEP AFI B0-ASEP AFI B0-SNET PFF-CNS		✓ AFI SUR Project Coordinators ✓ AFI SUR Project Team Leader		December 2017	
	Automatic Dependa	nt Surveil		ADS-C)		
Implementation of ADS-C Improvement of the availability of	AFI B0-ASUR, AFI B0 -SNET, AFI B0-ASEP AFI B0-ASEP AFI B0-SNET PFF-CNS AFI B0-ASUR, AFI B0 -SNET, AFI B0-ASEP		✓ AFI SUR Project Coordinators ✓ AFI SUR Project Team Leader ✓ AFI SUR Project Coordinators			
ADS-C Systems	AFI BU-ASEP AFI BU-ASEP AFI BU-SNET PFF-CNS		✓ AFI SUR Project Team Leader			
Automatic Dependant Surveillance Broadcast (ADS-B)						

			Appendix 3.3.1N			
AFI REGION	PROJECT DESCRIPTION			REFERENCE IIMSG / Area of Routing # All		
Sub-domain		Start	End			
Implementation of ADS-B	AFI B0-ASUR, AFI B0 -SNET, AFI B0-ASEP AFI B0-ASEP AFI B0-SNET PFF-CNS	✓ AFI SUR Project Coordinators ✓ AFI SUR Project Team Leader				
		Multilatération				
Implementation of Mlat	AFI B0-ASUR, AFI B0 -SNET, AFI B0-ASEP AFI B0-ASEP AFI B0-SNET PFF-CNS	✓ AFI SUR Project Coordinators ✓ AFI SUR Project Team Leader				
		General SUR				
Implement Performance Based Surveillance (PBS) based on the Required Surveillance Performance (RSP)	AFI B0-ASUR, AFI B0 -SNET, AFI B0-ASEP AFI B0-ASEP AFI B0-SNET PFF-CNS	✓ AFI SUR Project Coordinators ✓ AFI SUR Project Team Leader				
Implementation of Surveillance Data Fusion (data sharing)	AFI B0-ASUR, AFI B0 -SNET, AFI B0-ASEP AFI B0-ASEP AFI B0-SNET PFF-CNS	✓ AFI SUR Project Coordinators ✓ AFI SUR Project Team Leader				
Teleconferences, Workshops/Seminars, meetings (French and English) on surveillance systems operation and their implementation scheme	AFI B0-ASUR, AFI B0 -SNET, AFI B0-ASEP AFI B0-ASEP AFI B0-SNET PFF-CNS	✓ AFI SUR Project Coordinators ✓ AFI SUR Project Team Leader	TBD			
Assessment/Reporting on the operation of Surveillance systems and operation	AFI B0-ASUR, AFI B0 -SNET, AFI B0-ASEP AFI B0-ASEP AFI B0-SNET PFF-CNS	✓ AFI COM Project Coordinators ✓ AFI SUR Project Team Leader	TBD			

				REFE	RENCE
AFI REGION	PROJECT DESCRIPTION			IIMSG / Area of Routing # All	
Sub-domain	Title of the Project			Start	End
Detailed guidance provided to States not complying with the AFI SUR Strategy	AFI B0-ASUR, AFI B0 -SNET, AFI B0-ASEP AFI B0-ASEP AFI B0-SNET PFF-CNS	✓ AFI SUR Project Coordinators ✓ AFI SUR Project Team Leader		TBD	
List of States with Surveillance systems implemented	AFI B0-ASUR, AFI B0 -SNET, AFI B0-ASEP AFI B0-ASEP AFI B0-SNET PFF-CNS	✓ AFI SUR Project Coordinators ✓ AFI SUR Project Team Leader		TBD	
Resources needed	 ✓ Adequate human ressouces 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 SUR tests and monitoring, and, if necessary, cover the financial costs, since the experience gained will result in an improvement of their own systems. 				

¹ 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