



ICAO

**INTERNATIONAL CIVIL AVIATION ORGANIZATION
AFI PLANNING AND IMPLEMENTATION REGIONAL GROUP (APIRG) PROJECT
COORDINATION COMMITTEE FIRST MEETING (APCC/1)**

PROJECT: AFI DL/CMRA PROJECT

Coordinator: Cape Verde

DOMAIN: IIM

(Infrastructure & Information Management)

AFI REGION	PROJECT DESCRIPTION	REFERENCE IMSG / Area of Routing # All	
		Start	End
Sub-domain	Title of the Project		
<i>Communication, Navigation and Surveillance (CNS)</i> (ICAO Facilitator: WACAF/ESAF ROs/CNS)	REGIONAL MONITORING AGENCY : Implementation of Data Link Regional Monitoring Agency Project-Team Coordinator: <i>Cape Verde</i> Project Team Experts (4): ATNS, Ghana, ASECNA, Seychelles, AFRAA and IATA,	Month/ Year	Month/ Year
Objectives	<p>APIRG 20 held in Yamoussoukro, Cote d'Ivoire agreed to create the AFI Data Link Central Monitoring and Reporting Agency (AFI DL/CMRA) The project Team were tasked to identify and propose the main functions of the regional DL/CMRA, appropriate organizational framework and suitable cost effective funding mechanism</p> <p>The proposed role of AFI DL/CMRAs should be in the framework of the performance-based communication and surveillance (PBCS) monitoring program as prescribed by ICAO Standards and Recommended Practices (SARPs) with regards to 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 (PANS--ATM) Doc 9694 Manuel on Air Traffic Services Data link Applications, Doc 10037 Global Operational Data Link Document (GOLD) and Doc 9869 Performance Based Communication and Surveillance Manual (PBCS))</p>		
Scope	<p>DL/CMRA Project Team should develop the Terms of Reference defining the main functions of the AFI DL/CMRA including information technology, supporting tools and security policies;</p> <p>DL/CMRA Project Team should study and identify regional funding mechanisms for the implementation of the DL/CMRA;</p> <p>The ICAO Regional Director, WACAF and ESAF, circulate by e-mail correspondence the outcome of the DL/CMRA Project Team for next APIRG/21 for approval.</p>		

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Sub-domain	Title of the Project	Start	End
Metrics	<ul style="list-style-type: none"> a- States' regulations and policy requirements for OPS approval and safety oversight applicable to ANSPs b- ANSPs systems readiness to handle P-codes c- CPDLC/ADS-C and SATCOM services implemented in the region d- AIDC links effectively implemented e- Local data link monitoring programs set up by ANSPs 		
Outcome	<p>Complete development of the Terms of Reference for the establishment of the AFI DL/CMRA.</p> <p>Proposal to APIRG 21 appropriate organizational framework and suitable cost effective funding mechanism for the establishment of the AFI DL/CMRA</p>		
Strategy	<p>ICAO WACAF/ESAF to identify and organize training and workshop for technical personnel on Data Link Monitoring performance assessment.</p> <p>ICAO to support AFI States on development of the regulations and policy requirements on Operational approval for data link operations in line with PBCS</p> <p>The project team to assist ANSPs establishing local Data Link monitoring programs that will support the regional DL/CMRA</p>		
Rationale/Justification	<p>The Air Navigation Commission acting under delegated authority, adopted/approved Amendment 7 (i.e. Amendments 7-A and 7-B), on March 2016 to the fifteenth edition of the Procedures for Air Navigation Services – Air Traffic Management (PANS-ATM), for applicability on November 2016 concerning:</p> <ul style="list-style-type: none"> a. Performance-based longitudinal and lateral separation minima and automatic dependent surveillance — contract (ADS-C) climb and descend procedure (CDP); b. Separation departing aircraft from arriving aircraft that are following an area navigation (RNAV) or required navigation performance (RNP) route c. Data link initiation capability (DLIC), ADS-C, performance-based communication and surveillance (PBCS) and satellite voice communications (SATVOICE) <p>For safety oversight applicable to ANSP, States should ensure that ANSPs established a validation process that confirms regulatory and system readiness that would the meet capability and performance requirements to support PBCS operations.</p> <p>For Operational approval with regards to users, States of registry have to develop regulations and policy requirements for data link operations applicable to airlines.</p>		

<p style="text-align: center;">Related Projects</p>	<p>All APIRG projects specifically related to:</p> <ul style="list-style-type: none"> ✓ PIA1-Improve Traffic flow through Runway Sequencing (AMAN/DMAN)-B0RSEQ ✓ PIA1-Increased Runway Throughput through optimized Wake Turbulence Separation - B0-WAKE ✓ PIA1- Improved Airport Operations through Airport – B0-ACDM ✓ PIA2- Service Improvement through Digital Aeronautical Information Management- B0-DIAM ✓ PIA3-Air Traffic Situational Awareness(ATSA)- B0- ASEP <li style="padding-left: 20px;">PIA3-Improved Operations through Enhanced En-Route Trajectories- BO-FRTO ✓ PIA3-Improved flow performance through planning based on Networkwide view- B0-NOPS. ✓ PIA3- Improved access to optimum Flight levels through Climb/Descent Procedures using ADS-B- B0-OPF ✓ 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) - B0CDO. ✓ PIA4-Improved Flexibility and Efficiency Departure profiles-Continuous Climb Operations (CCO)-B0-CCO 						
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Sub-domain	Title of the Project					Start	End
Project Deliverables	Relationship with the Regional Performance-Objectives (RPOs/PFFs) and ASBU Modules	KPI	Responsible	Status of Implementation¹	Date of Delivery	Comments	
<p>Terms of Reference of the AFI DL CMRA</p>	<p>AFI B0-ASEP AFI B0-FRTO AFI B0-CDO AFI B0-CCO PFF-CNS</p>		<p>✓ AFI COM Project Coordinators</p> <p>✓ AFI COM Project Team Leader</p>		<p>December 2019</p>		
<p>Regional workshops on Data link monitoring performance assessment in line with PBCS</p>			<p>✓</p>				

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	
Upgrade of ATM Systems (AMHS, FDPS, etc.) to process flight plan P-codes			✓			
Acquisition/Development of Tools to be used			✓			
Establishment of local Data link Monitoring Programmes			✓			
Teleconferences, Workshops/Seminars, meetings (French and English) on Data Link monitoring performance assesment	AFI B0-ASEP AFI B0-FRTO AFI B0-CDO AFI B0-CCO PFF-CNS		✓ AFI COM Project Coordinators ✓ AFI COM Project Team Leader		TBD	

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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 address regional monitoring performance assesment on CPDLC, ADS-C and SATCOM services provisions ✓ Funds for the acquisition of the software tools to be used by the AFI DL/CMRA 		



- 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*