

PROJECT: AFI DL/CMRA PROJECT

Coordinator: Cape Verde

DOMAIN: IIM

(Infrastructure & Information Management)

| AFI REGION | PROJECT DESCRIPTION | REFERENCE IIMSG / Area of Routing # All | |
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| Sub-domain | Title of the Project | Start | End |
| <p><i>Communication, Navigation and Surveillance (CNS)</i></p> <p>(ICAO Facilitator: WACAF/ESAF ROs/CNS)</p> | <p>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,</p> | <p>Month/ Year</p> | <p>Month/ Year</p> |
| <p>Objectives</p> | <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> | | |
| <p>Scope</p> | <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; DL/CMRA Project Team should study and identify regional funding mechanisms for the implementation of the DL/CMRA; 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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| <p>Metrics</p> | <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 |
| <p>Outcome</p> | <p>Complete development of the Terms of Reference for the establishment of the AFI DL/CMRA. Proposal to APIRG 21 appropriate organizational framework and suitable cost effective funding mechanism for the establishment of the AFI DL/CMRA</p> |
| <p>Strategy</p> | <p>ICAO WACAF/ESAF to identify and organize training and workshop for technical personnel on Data Link Monitoring performance assessment. ICAO to support AFI States on development of the regulations and policy requirements on Operational approval for data link operations in line with PBCS The project team to assist ANSPs establishing local Data Link monitoring programs that will support the regional DL/CMRA</p> |
| <p>Rationale/Justification</p> | <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>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)-BORSEQ ✓ 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 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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| Project Deliverables | Relationship with the Regional Performance- Objectives (RPOs/PFFs) and ASBU Modules | KPI | Responsible | Status of Implementation ¹ | Date of Delivery | Comments |
| Terms of Reference of the AFI DL CMRA | <p>AFI B0-ASEP AFI B0-FRTO AFI B0-CDO AFI B0-CCO PFF-CNS</p> | | <ul style="list-style-type: none"> ✓ AFI COM Project Coordinators ✓ AFI COM Project Team Leader | | December 2019 | |
| Regional workshops on Data link monitoring performance assessment in line with PBCS | | | ✓ | | | |

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| 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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| <p>Resources needed</p> | <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 assessment on CPDLC, ADS-C and SATCOM services provisions ✓ Funds for the acquisition of the software tools to be used by the AFI DL/CMRA |
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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*