IDENTIFICATION AND DEVELOPMENT OF AIM PROJECTS

AFI Region	PROJECT DESCRIPTION (DP)	DP N° AFI AIM/1	
Programme	**Title of the Project**	**Start**	**End**
AIM (**ICAO Programme Coordinator: George Baldeh**)	Implementation of the provision of electronic terrain and obstacle data (e-TOD) (AFI Region) Project coordinator: (NIGERIA)- Mr Felix ANYANWU Experts contributing to the project: ATM/AIM/SAR/SG-14 and APIRG/IIM/SG **Members :** South Africa, Tanzania, Angola, Nigeria, IATA, ASECNA, Kenya, Cameroon, Uganda, Botswana,	1/06/15	31/12/17
Objective	Support the implementation of the provision of e-TOD by AFI States, and provide guidance to States on GIS acquisition and management.		
Scope	The scope of the project contemplates the assessment and identification of implementation levels associated to the provision of electronic terrain and obstacle data. It contemplates the drafting of an Action plan and guides for the implementation of e-TOD to support developments in the provision of electronic terrain and obstacle data for the evolution of digital terrain models (DTM) to gradually improve electronic aeronautical charts and other similar products, with the support of tools such as the Geographical Information Systems (GIS).		
Metrics	• Number of States that have implemented GIS or automated systems. • Guide-document with action plan approved. • Number of States that establish SLAs. • Main International Airports with Area 2 (eTOD) surveyed		

Strategy	The conduction of project activities will be coordinated among project members, the Project Coordinator, and the Programme Coordinator, mainly through teleconferences (GoToMeeting application) and meetings that may be held within other scheduled events, based on the activities of the work programme. The Project Coordinator will coordinate with the Programme Coordinator for the inclusion of additional experts, if warranted by the tasks and works to be executed. The results of the work done will be submitted to the consideration and review of State experts in the form of a final consolidated document for analysis, review, and approval, and for presentation to the APIRG/20 by the Programme Coordinator.
Goals	Draft the Guide-document containing the objectives of the e-TOD project. 2015. Define the technical and e-TOD project specifications. 2015. Prepare the document containing the e-TOD technical specifications. 2015. Guide on the acquisition of a Geographical Information System (GIS). 2015. GIS implementation Manual. 2015. Available Methodology and tools for surveying Area 2. 2016 Main International Airports with Area 2 surveyed. 2016-2017
Rationale	Compliance with the SARPs of Annexes 15 and 4 to facilitate the execution of performance-based air operations and to advance with the AIS-AIM Transition Roadmap. A close relationship with other projects is needed in order to obtain the operational requirements of the aforementioned applications and their respective tentative dates of implementation.
Related projects	This project is related to Project AFI ANFR B0 30/DATM "Implementation of the Quality Management System in the AIM units" in the AFI Region States.

Project deliverables	Relationship with the performance-based regional plan (PFF)	Responsible party	Status of implementation*	Delivery date	Comments
Survey on the status of e-TOD implementation.	PFF: AFI AIM/1	TBD		31/12/2015	
Generate follow-up report.	PFF: AFI AIM/1	TBD		31/12/2015	

Develop Guide-Document with the objectives of the e-TOD project.	PFF: AFI AIM/1	TBD		31/12/2015	
Define the technical specification of the e-TOD project.	PFF: AFI AIM/1	TBD		31/12/2015	Acquire a mobile Mapper and one day training on the equipment. This is a GPS with a high accuracy as per ICAO requirement. Pick the coordinates of all obstacles which are 100m high within the FIR and publish them. The equipment conforms to the accuracy given in annex 15. This will do for area 1
Develop the document with the e-TOD technical specifications.	PFF: AFI AIM/1	TBD		31/12/2015	We have developed specifications for acquiring obstacle data for area 2 which are hereby Attached. This was for our use for awarding the Contract to a consultant.
Guide for the acquisition of a geographical information system (GIS).	PFF: AFI AIM/1	TBD		31/12/2015	For e-TOD we use ERDAS IMAGINE II
GIS implementation manual.	PFF: AFI AIM/1	TBD		31/12/2015	
Present to States the different options available for surveying Area 2	ASBU:BO30 DATM	TBD		31/12/2015	Using a consultant who have the necessary tools to provide data for area 2a,2b,2c,and 2d
Conduct seminars for e-TOD specialists, describing the plans and expected operational and economic benefits.	PFF: AFI AIM/1 ASBU:BO30 DATM	ICAO Coordinator		31/12/2016	*Encourage National initiatives of States to organize seminars to sensitize all e-TOD stakeholders*
Resources required	Designation of experts in the execution of some of the deliverables. More commitment by States to support the designated Coordinators and experts. Funds to conduct the meetings, missions and to translate reports, regional guides and manuals. Likewise, participants must be given facilities to participate in Go To Meetings. Funds to conduct audit trials. States could cover the cost of trials by their lead auditors, since the experience obtained will contribute to improve the system. Likewise, participants must be given facilities to participate in Go-To Meetings.				

*Grey   Task not started
Green   Activity underway as scheduled
Yellow   Activity started with some delay but expected to be completed on time
Red   It has not been possible to implement this activity as scheduled; mitigating measures are required

AFI Region	PROJECT DESCRIPTION (DP)	DP N° AFI AIM/3	
Programme	**Title of the Project**	**Start**	**End**
AIM (ICAO Programme Facilitator: George A Baldeh)	Assessment and development of QMS applied to AIM in AFI States Project coordinator**:** **(Kenya) Joseph Maina** Experts contributing to the Project: ATM/AIM/SAR/SG-14 and APIRG/IIM/SG Member **: Angola, Senegal, Gambia, Nigeria, Tanzania, Mozambique, Angola, Ghana, Uganda**, IATA, ASECNA, South Africa	1/6/2015	1/06/16
Objective	Implement guides applicable to the quality management system in a digital/electronic AIM environment in the AFI Region, based on the regional performance objectives of the AFI performance-based implementation plan.		
Scope	The scope of the project contemplates the assessment and identification of implementation levels associated to quality management in AIM services in the Region. Drafting of an action plan and guides for the implementation of QMS in a digital/electronic AIM environment.		
Metrics	Percentage of States with ISO 9001:2008 QMS certification.		
Goals	60% of States with the ISO standard 9001:2008 implemented by December 2015, and certified by 2016.		

Strategy	Project activities will be coordinated among project members, the Project Coordinator, and the Programme Coordinator, mainly through teleconferences (GoToMeeting application) and meetings that may be held within other scheduled events, based on the activities of the work programme. The Project Coordinator will coordinate with the Programme Coordinator for the inclusion of additional experts, if warranted by the tasks and work to be performed. The results of the work done will be submitted to the consideration and review of State experts in the form of a final consolidated document for analysis, review, and approval, and for presentation to the APIRG Infrastructure and Information Management Sub-Group (IIM/SG) by the Programme Coordinator.
Rationale	The quality management system in AIM services must provide users the required guarantee and assurance that the aeronautical information/data distributed meets quality requirements in terms of accuracy, resolution and integrity. There needs to be a close relationship with other projects in order to collect the operational requirements of the aforementioned applications and their respective tentative dates of implementation.
Related projects	This project is related to Projects AFI ANFR B0 30/DATM "Implementation of the provision of electronic terrain and obstacle data e-TOD" and "Implementation of Aeronautical Information Exchange Systems (AIXM)".

Project deliverables	Relationship with the performance-based regional plan (PFF)	Responsible party	Status of iple-Mentation*	Delivery date	Comments
Prepare surveys to establish the levels of compliance and implementation of AIM-QMS based on ICAO guides	PFF: AFI AIM/3	**Kenya** States to fill the questionnaire so that we may know the implementation status of each state		31/12/15	Delegate where necessary
Circulate surveys to the States	PFF: AFI AIM/3	ICAO coordinator		31/12/16	
Collect and tabulate the information of the States	PFF: AFI AIM/3	ICAO coordinator		31/12/16	

Description of steps for QMS implementation.	PFF: AFI AIM/3	Implementation is the middle stage of the QMS process and implementation can only be done after completing preparation and documentation stages		31/12/15	
QMS self-assessment questionnaire	PFF: AFI AIM/3	After staff training on QMS a questionnaire can be done to check on the buy in by staff		31/12/15	
Template with QMS assessment results	PFF: AFI AIM/3	This can only be available after the results of the questionnaire		31/12/15	
QMS implementation plan	PFF: AFI AIM/3	1 Start with Document control 2 Explain the requirements of ISO to the staff 3 Assign staff members to write work instructions 4 Document the main steps		31/12/15	
QMS procedures and preventive actions.	PFF: AFI AIM/3	-these are actions taken to stop it from happening, or to stop it from becoming too severe. -adequate monitoring and controls must be in place in the quality system to ensure that potential problems are identified and eliminated before they happen. Can be done by: e.g. • management review process • Process / Performance monitoring • Analysis of warranty data and customer feedback for trends • Process analysis etc		31/12/15	
QMS internal audit procedure.	PFF: AFI AIM/3	• Define the audit programme -Implement the audit programme		31/12/15	

		-Review the audit programme -Improve the audit programme - Use trained Auditors -Use the internal audit work instructions prepared by the company			
Procedure for controlling AIS service management system records	PFF: AFI AIM/3	-a record is generated to state results achieved or to provide evidence of activities performed. -The procedure should be as detailed in the ISO standard para 4.2.4		31/12/15	
Procedure for drafting QMS documents.	PFF: AFI AIM/3	This is the order 1 Quality Manual 2 QMS Procedures & Forms that describe the QMS and specific QMS processes applicable across all departments / areas 3 Local work instructions, forms, or other process specific documentation applicable only to a specific department / area process Template available		31/12/15	
Service control procedure – QMS non-conforming products.	PFF: AFI AIM/3	An ISO procedure document for Control of non- conforming products should be published. The following should be clearly listed in the document 1 Identification 2 Containment 3 Disposition Option 4 Eliminate 5 Authorize use 6 Preclude original use 7 Correct per Disposition		31/12/15	

		8 Corrective Action		
Procedures for controlling the documents of the AIS service management system.	PFF: AFI AIM/3	-Preparation, Review and Approval of Documents -Formatting -Documents revision Coding and Status -Receiving and distribution of External Documents -Outgoing documents -Filling and storage -Obsolete documents	31/12/15	
SLA with service providers to ensure the quality of the information and the AIM data exchange.	PFF: AFI AIM/3	Sample available MOU between KCAA and KAA and a Quality manual for AIS Kenya	31/12/15	
Collect certifications and produce report on the status of ISO 9001:2008 certifications in the AFI Region	PFF: AFI AIM/3	ICAO Coordinator	31/12/16	
Resources required	Designation of experts in the execution of some of the deliverables. More commitment by States to support the designated coordinators and experts. Funds to conduct the meetings, missions and to translate reports, regional guides and manuals. Likewise, participants must be given facilities to participate in Go To Meetings. Funds to conduct audit trials. States could cover the cost of trials by their lead auditors, since the experience obtained will contribute to improve the system. Likewise, participants must be given facilities to participate in GoTo Meetings.			

Rmks	I find the table not exhaustive enough. The table would have documented the certification process and requirements
	1 To prepare for QMS the following documents need to be prepared
	  a) Quality Manual
	  b) Quality Policy			

c) Control of documents d) Control of records e) Control of non performing products/services f) Continual improvement g) Management review and internal audit h) A management representative must be appointed to drive the process 2 Training should be done to both staff and management 3 train internal auf An internal auditors 4 Carry out an internal audit 5 Carry out corrective action on any findings 6 Invite an external auditor for certification (This one has its own process) 7 There is no item on ISO maintenance **Am Unable to change the Dates, these will have to be agreed upon by members the reason being states are at different stages of implementation which means the time lines will vary from state to state**	

AFI Region	PROJECT DESCRIPTION (DP)	DP N° AFI AIM/2	
Programme	**Title of the Project**	**Start**	**End**
AIM (**ICAO Programme Coordinator: George AY Baldeh**)	AFI AIM/2: Implementation of Aeronautical Information Exchange Systems (AIXM) (AFI) Project coordinator: (**BENIN**) **Athanase AHOUANGAN** Experts contributing to the project: ATM/AIM/SAR/SG-14 and APIRG/IIM/SG **Member States : Angola, Gambia, Mali, Tanzania, Kenya, Uganda, Mozambique, Ghana, Nigeria, Senegal, ASECNA, South Africa, Mauritania, IATA, Cameroon**	1/06/15	31/12/16
Objective	Prepare an action plan to be implemented by States for the application of the aeronautical information/data exchange model.		
Scope	The scope of the project contemplates the evaluation and identification of automation levels associated to the integration of the aeronautical information and data exchange model in the Region, through surveys, the identification of database providers, and the follow-up on the development of SARPs on this matter.		

Metrics	Number of States that have implemented an Action Plan for data exchange systems.
Goals	Complete all the documentation needed by States before 31/12/16.
Strategy	Project activities will be coordinated among project members, the Project Coordinator, and the Programme Coordinator, mainly through teleconferences (GoToMeeting application). Seminars/meetings are scheduled in accordance with work programme activities. The Project Coordinator will coordinate with the Programme Coordinator for the inclusion of additional experts, if warranted by the tasks and work to be performed. Coordination will take place between States in AFI Region and Stakeholders. The results of the work done will be submitted to the consideration and review of State experts in the form of a final consolidated document for analysis, review, and approval, and for presentation to the APIRG Infrastructure and Information Management Sub-Group (IIM/SG) by the Programme Coordinator.
Rationale	Integrate aeronautical information so as to permit the interoperability of ATM systems while preserving safety, applying the information exchange models.
Related projects	This project is related to Project AFI ANFR B0 30/DATM "Implementation of the Quality Management Systems in the AIM units in AFI States".

Project deliverables	Relationship with the performance-based regional plan (PFF)	Responsible party	*Status of Implementation	Delivery date	Comments
Survey of the provision of IAIP, using a table.	PFF: AFI AIM/2	Programme coordinator		30/11/15	Send IAIP table to the state by WACAF/EASF letter before APIRG/20 meeting
Circulation of IAIP survey to States	PFF: AFI AIM/2	Programme coordinator		31/12/15	APIRG/20 is an occasion to sensitize state to give reply

Collection and updating	PFF: AFI AIM/2	Programme coordinator		*30/03/16*	Centralise state reply and have a reel situation
Collection of experiences in AFI States with the electronic AIP	PFF: AFI AIM/2	Programme coordinator		*30/06/16*	From IAIP table established with state reply, send a letter to state who has implemented eAIP in order to have synthetic view on implementation experiences
Organise AIXM seminar	PFF: AFI AIM/2	Programme coordinator		August 16	
Analyse Eurocontrol AIXM specifications	PFF: AFI AIM/2	Project coordinator		31/10/16	After AIXM seminar, specifications analyse will be done by project members. A summary will be provided to Programme coordinator.
Develop guidance material	ASBU: BO30 DATM	Project coordinator		31/11/16	From EUROCONTROL AIXM specifications Project members will provide a guidance materiel
Develop AIXM action plan for the States	PFF: AFI AIM/01 ASBU: BO30 DATM	Project coordinator		31/12/16	AIXM plan will be available to be proposed to the state .
Resources required	Designation of experts in the execution of some of the deliverables. Commitment by States to support the coordinators and experts. Funds to conduct the meetings, missions and to translate reports, regional guides and manuals. Likewise, participants must be given facilities to participate in Go To Meetings. Funds to conduct audit trials. States could cover the cost of trials by their lead auditors, since the experience obtained will contribute to improve the system. Likewise, participants must be given facilities to participate in GoTo Meetings.				