



**Agenda Item 4: Regional Air Navigation Planning and Implementation Performance
Framework: Review of Programmes and Projects**

4.6 Projects of the AIM Programme

AIM Programme Projects

(Presented by the Secretariat)

SUMMARY
This working paper presents progress in the AIM Programme and its projects.
References: <ul style="list-style-type: none">• Report of the Second Meeting of the Programmes and Projects Review Committee (PPRC/2) (Lima, Peru , 16 to 18 July 2013)

1. Introduction

1.1 The PPRC/2 was concerned with the insufficient participation from CAR/SAM States in the different Aeronautical Information Management (AIM) projects.

1.2 Another issue of concern was the discovery of the need for electronic Terrain and Obstacle Data (e-TOD), for proper function of several air navigation applications.

1.3 In accordance with Annex 15 – *Aeronautical Information Services*, Area 2 (e-TOD) should be available on 15 November 2015. Therefore, to reduce costs, it is important that both Regions analyze possibilities to develop technical cooperation projects among States as a more economical way to obtain data sources.

2. Discussion

CAR Region AIM Programme Projects

2.1 The AIM Programme includes tasks in accordance with the requirements of the ICAO AIS-AIM Transition Roadmap and GREPECAS, which are based on programmes and projects listed in **Appendix A**, as well as a more consistent approach in support of air navigation implementation activities, in accordance with the priority given by the Aviation system block Upgrade (ASBU) methodology.

2.2 Taking into account PPCR/2 Meeting discussions regarding States availability of human and financial resources, and despite State interest expressed at the GREPECAS/16 Meeting to cooperate in the different tasks related to these projects, to date, no official document has been received from the States regarding the assignment of experts.

2.3 Some of the most notable difficulties affecting AIM implementation procedures in the CAR States are presented in the following table:

Id.	Main Difficulties Identified for the Transition from AIS to AIM
1	Implementation of Phase 1 (consolidation); some C A R States will complete implementation of step 17 (QMS) by the end of 2015
2	Tight timelines for Phases 2 and 3 implementation; not realistic for some States; implementation of Phases 2 and 3 may probably not be completed before 2016 and 2020, respectively
3	Financial constraints
4	Trained manpower availability, resources (human and material), and knowledge (required expertise)
5	Availability to organize training programmes and AIM staff assessment , as well as develop profiles, competencies and the functions for the involved experts
6	Lack of ICAO guidance material; AIM documentation with detailed descriptions of the actions and procedures to assist States with the implementation processes, as well as complete ICAO Annexes 15 and 4, Documents and Manuals to include AIM requirements (Amendments 39 and 59 to Annexes 4 and 15 respectively and AIM PANS among others)
7	Commitment of data originators in provisions adoption for its management and storage (National Regulations), particularly for Integrated Aeronautical Information Package (e-IAIP, electronic Aeronautical charts and eTOD).
8	Lack of Aeronautical Information Exchange Model (AIXM 5.1) development and implementation
9	Lack of e-TOD implementation - Areas 1, 2, 3 and 4, as applicable

Table 1

2.4 For **Project G1 – Developments for the provision of electronic Terrain and Obstacle Data (e-TOD) in States**, a guide for e-TOD implementation in Spanish (for which there is also an English version), was distributed to CAR States. The guide, based on an EUROCONTROL document, provides an implementation process with useful elements for the integration of an action plan, among other contributions. Additionally, Mr. Gilbert Lasnier at ICAO Headquarters, is coordinating the translation of another ICAO document “*Understanding ICAO eTOD requirements*” into Spanish that is available only in English, which will be distributed in both languages in the CAR Region in 2015.

Analysis of goals achievement based on G1 indicators/metrics, as a platform for the future implementation of e-TOD

- States having Geographical Information System (GIS) for the geo-referenced data set management as the basis for e-TOD = **86 %**
- States with a Guide-Document and action plan approved = **100%.**
- States that have established agreements (LoAs) with other States/international Organizations = **52 %**

Comparative Data Table

2013-2014 State (UN Code)	States with automated Systems or GIS for the AIP elaboration	States with Guidance Document with Action Plan approved	States that establish LoA agreements
ATG (PIARCO)	YES (PIARCO in process)	YES (PIARCO)	YES (PIARCO)
BHS	(contract with SAT-NAV)	YES	NA(*)
BRB	--	YES (in process)	NA(*)
BLZ (COCESNA)	YES (COCESNA)	YES (COCESNA)	YES (COCESNA)
CAN	YES	YES	NA(*)
CRI	YES (possible agreements are initiated with COCESNA for Aeronautical Charts)	YES	NA(*)
CUB	YES	YES	NA(*)
DOM	YES	YES	NA(*)
SLV	YES (COCESNA/CEPA)	YES (COCESNA/CEPA)	YES (COCESNA/CEPA)
USA	SI	YES	NA(*)
GRD	YES (PIARCO in process)	YES (PIARCO)	YES (PIARCO)
GTM	YES (COCESNA)	YES (COCESNA)	YES (COCESNA)
HTI	--	YES (in process)	--
HND	YES (COCESNA)	YES (COCESNA)	YES (COCESNA)
JAM	--	YES	--
MEX	SI	YES	NA(*)
NIC	YES (COCESNA)	YES	YES (COCESNA)
KNA	YES (PIARCO in process)	YES (PIARCO)	YES (PIARCO)
LCA	YES (PIARCO in process)	YES (PIARCO)	YES (PIARCO)
VCT	YES (PIARCO in process)	YES (PIARCO)	YES (PIARCO)
TTO	YES (PIARCO in process)	YES (PIARCO)	YES (PIARCO)

(*) NA - Not applicable

2.5 Currently, a Regional survey is in circulation, initiated by the Project Coordinator, Mr. Alfredo Mondragón, to determine the progress achieved with the e-TOD implementation process. It is expected that with the survey results assistance will be developed for States that expressed difficulties with developing and implementing the system.

2.6 **Project G2 -former G3 – Development of quality specifications applicable to a digital AIM environment** shows us the CAR Region States and international organizations that have implemented or started the process for Quality Management System (QMS) implementation. Those that have already achieved 100% implementation are: Canada, Costa Rica, Cuba, Dominican Republic, Nicaragua, United States, and COCESNA which represents **33 %**. Those that are undergoing the implementation process are Barbados, CEPA (El Salvador), Mexico and Trinidad and Tobago (PIARCO States and Territories), that represents **48%**. See the following table:

State	% implementation	% of progress in 2014 up to date
ATG (PIARCO)	75	10
BHS	0	0
BRB	35	10
BLZ (COCESNA)	0	0
CAN	CERTIFIED	--
CRI	100	--
CUB	CERTIFIED	--
DOM	CERTIFIED	--
SLV (CEPA)	25	0
USA	CERTIFIED	--
GRD (PIARCO)	75	10
GTM	0	0
HTI	15	10
HND	20	20
JAM	0	0
MEX	CERTIFIED	--
NIC	100	--
KNA (PIARCO)	75	10
LCA (PIARCO)	75	10
VCT (PIARCO)	75	10
TTO (PIARCO)	75	10

Table 2

2.7 Currently, there is a Regional survey underway, initiated by the Project Coordinator Mr. Enrique Echarrí, to determine the progress achieved with QMS implementation. It is expected that with the survey results, assistance will be developed for States that expressed difficulties with developing and implementing the system.

AIM Programme Projects in the SAM Region

2.8 In reference to **Project G1 - Developments for the provision of electronic terrain and obstacle data (e-TOD) in the States**, that is shown in **Appendix B1**, an Action Plan for the implementation of functional improvements on the Aeronautical Information provision was developed. The progress has been as follows:

Analysis of the achievement of goals, based on G1 Project indicators/metrics

- States with a GIS System or automated system implemented
2012= 14% 2014= 35%
- States with a Guide-Document and action plan approved
2012= 0 2014= 100%
- States that established Service Level Agreements (SLA)
2012= 0 2014= 14%

2014 State	% of States with automated Systems or GIS = 35 %	% of States with Guidance Document with Action Plan approved = 100%	% of States that stablish SLoA agreements = 14%
ARG	YES	YES	YES
BOL		YES	
BRA	YES	YES	
CHI		YES	
COL	YES	YES	
ECU		YES	
FGY		YES	
GUY		YES	
PAN		YES	
PAR		YES	
PER	YES	YES	
SUR		YES	
URU	YES	YES	YES
VEN		YES	

Table 3

2.9 **Project G2 - Development of quality specifications applicable to a digital AIM environment** as shown in **Appendix B2** remains without coordinator and the tasks have been conducted by the Programme Coordinator. Also, States have not offered to collaborate with their experts to coordinate the tasks and development of this Project.

2.10 The Secretariat developed the deliverables from the information developed during the SAM/AIM/3 and SAM/AIM/4 Meetings, but the AIXM Model Project is delayed with respect to its initial schedule.

2.11 The Project delay does not currently have a big impact, because the ASBU methodology has extended the implementation term, and also taking into account the delay of Headquarters with respect to corresponding ICAO Standards and Recommended Practices (SARPs) development for the features and operational use of the current exchange models in Europe and United States.

Analysis of goals achievement based on G2 Project indicators/metrics

- States with an Action Plan implemented for Exchange Data Systems: **0%**

2.12 **Project G3 - Implementation of the Quality Management System in AIM units**, as shown in **Appendix B3** - significant progress has been achieved completing all the Project deliverables. There is only one missing activity for the Certifications Report.

Analysis of goals achievement based on G3 Project indicators/metrics

States certified with QMS ISO 9001:2008
2012= 4 States 2014=5 States

2.13 Currently, there are five certified States with QMS within the SAM Region: **Brazil, Chile, Ecuador, French Guiana and Paraguay**. The last update on April 2014 and the progress of each State since 2012 can be observed in the following table:

State	% of Implementation April 2014	Implementation date	% Progress
Argentina	50%	Sep/2014	20%
Bolivia	30%	Jul/2015	0%
Brazil	CERTIFIED	-----	-----
Chile	CERTIFIED	-----	-----
Colombia	90%	Sep/2014	20%
Ecuador	CERTIFIED	-----	-----
French Guiana	CERTIFIED	-----	-----
Guyana	25%	Dec/2015	25%
Panama	50%	Aug/2015	10%
Paraguay	CERTIFIED	-----	-----
Peru	60%	Aug/2015	20%
Suriname	45%	Aug/2014	15%
Uruguay	95%	Mar/2015	5%
Venezuela	70%	Nov/2014	20%

Table 4

3. Conclusion

3.1 In the CAR Region Projects G1 and G2 (formerly G3) have progressed as scheduled, and Project G2, was cancelled because the Coordinator from Mexico never became involved in the project work. However, this situation has not had a negative impact because the ASBU methodology has extended the target dates for State AIXM Model implementation.

3.2 In the SAM Region, Projects G1 and G3 have progressed as scheduled, and Project G2 is delayed and without Coordinator, which does not have a negative impact because the ASBU methodology has extended the implementation term for States in the AIXM.

4. Suggested action

4.1 The GREPECAS/17 Meeting is invited to:

- a) take note of the information contained in this working paper; and
- b) review and formulate any actions that the Meeting deems appropriate on the activities of projects shown in Appendices A and B.

APPENDIX A

CAR Region	PROJECT DESCRIPTION (DP)	DP N° G1	
<i>Programme</i>	Title of the Project	Start	End
<i>AIM</i> (ICAO Programme Coordinator: Raúl Martínez)	Developments for the provision of electronic terrain and obstacle data (e-TOD) (CAR) Project coordinator: Alfredo Mondragón (COCESNA) Experts contributing to the project: None	26/09/11	31/12/16
Objective	Support the implementation of the provision of e-TOD by CAR States and provide States with guidance on e-TOD implementation.		
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 guidance for the drafting of an action plan and guidance for e-TOD implementation to support the development of digital terrain models (DTMs) to support the production of electronic aeronautical charts and other products required by the users.		
Metrics	Number of States with an e-TOD implementation action plan. Number of States that establish letters of agreement with geographical institutes and adjacent States (FIRs) Number of States that implement Areas 1, 2, 3 and 4		
Strategy	The conduction of project activities will be coordinated among project members, the Project Coordinator, and the Programme Coordinator, mainly through teleconferences (and other electronic media). 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 GREPECAS PPRC by the programme coordinator.		
Goals	Develop a survey to determine the status of implementation of the e-TOD. Preparing the document with the results of the survey and prepare a training Plan aimed at the support of the States with more requirements and difficulties in the implementation of the e TOD.		

Rationale	Compliance of SARPS Annex 15 and Annex 4 and ICAO Document 9881, availability of information of eTOD process development of the States in order to facilitate the implementation in those States where it is necessary to count with guidance material or some specific support				
Related projects	This project is related to projects G2 “Assessment and development of QMS applied to AIM in CAR States”				
Project deliverables	Relationship with the performance - based regional plan (PFF)	Responsible party	Status of Implementation*	Delivery date	Comments
Develop Regional survey in accordance with the objectives of the eTOD project	PFF CAR AIM	Alfredo Mondragón COCESNA		August 2014	Survey has been sent to the States - in process-
Prepare analysis of survey data and present an Action Plan in accordance with the objectives of the eTOD project		Raúl Martínez ICAO NACC		December 2014	
Resources required	Designation of experts in the execution of deliverables. Commitment by States to support the designated Coordinators and experts. (No expert of the States has been appointed in this project to date)				

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

CAR Region	PROJECT DESCRIPTION (DP)	DP N° G2	
Programme	Title of the Project	Start	End
AIM (ICAO Programme Coordinator: Raúl Martínez)	Development of support material on QMS applied to AIM in CAR States Project coordinator: Enrique Echarri (Cuba) Experts contributing to the project: None	September 2012	December 2016
Objective	Support the implementation of the provision of QMS by CAR States and provide States with guidance on QMS implementation.		
Scope	The scope of the project contemplates the assessment and identification of implementation levels associated to quality management in AIM services of the Region. Drafting of an action plan and guides for the implementation of QMS in the digital/ electronic environment of AIM.		
Metrics	Number of States that have implemented ISO 9001:2008 QMS.		
Goals	Develop a survey to determine the status of implementation of the QMS. Preparing the document with the results of the survey and prepare a training Plan aimed at the support of the States with more requirements and difficulties in the implementation of the QMS.		
Strategy	Project activities will be coordinated among project members, the Project Coordinator, and the Programme Coordinator, mainly through teleconferences (and other available electronic media). 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 GREPECAS PPRC by the Programme Coordinator.		
Rationale	The quality management system in AIM services must give users the necessary assurance and confidence that the aeronautical information/data being distributed meets quality requirements in terms of accuracy, resolution and integrity. The States need ICAO guidance for the QMS implementation process.		
Related projects	This project is related to projects G1 “Developments for the provision of terrain and obstacle data eTOD”		

Project deliverables	Relationship with the performance-based regional plan (PFF)	Responsible party	Status of implementation*	Delivery date	Comments
Develop Regional survey in accordance with the objectives of the QMS project	PFF: CAR AIM	Enrique Echarri Cuba		August 2014	Has been sent to the States the survey - in process-
Prepare analysis of survey data and present an Action Plan in accordance with the objectives of the QMS project		Enrique Echarri Cuba Raúl Martínez ICAO NACC		December 2014	
Resources required	Designation of experts in the execution of some deliverables. Commitment by States to support the Coordinators and experts. (No expert of the States has been appointed in this project to date)				

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

APPENDIX B1

SAM Region	PROJECT DESCRIPTION (DP)	DP N° G1	
<i>Programme</i>	Title of the Project	Start	End
AIM (ICAO Programme Coordinator: Roberto Arca Jaurena)	Implementation of the provision of electronic terrain and obstacle data (e-TOD) (SAM) Project coordinator: Juan González (Uruguay) Experts contributing to the project: SAM/AIM/IG	26/09/11	31/12/15
Objective	Support the implementation of the provision of e-TOD by SAM 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	<ul style="list-style-type: none"> • 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	<p>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.</p> <p>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 GREPECAS PPRC by the Programme Coordinator.</p>		

Goals	Draft the Guide-document containing the objectives of the e-TOD project. 2012. Define the technical and e-TOD project specifications. 2012. Prepare the document containing the e-TOD technical specifications. 2012. Guide on the acquisition of a Geographical Information System (GIS). 2012. GIS implementation Manual. 2012. Available Methodology and tools for surveying Area 2. 2013 Main International Airports with Area 2 surveyed. 2016				
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 G3 "Implementation of the Quality Management System in the AIM units" in the CAR/SAM States.				
Project deliverables	Relationship with the performance-based regional plan (PFF)	Responsible party	Status of implementation*	Delivery date	Comments
Survey on the status of eTOD implementation.	PFF: SAM AIM/02	Juan González Uruguay		30/11/2011	Finalised on schedule.
Generate follow-up report.	PFF: SAM AIM/02	Juan González Uruguay		30/04/2012	Finalised on schedule.
Develop Guide-Documents with the objectives of the eTOD project.	PFF: SAM AIM/02	Juan González Uruguay		30/09/2012	Finalised on schedule. Delivered 30/09/2012
Define the technical specification of the eTOD project.	PFF: SAM AIM/02	Juan González Uruguay		30/09/2012	Finalised on schedule. Delivered 30/09/2012

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Develop the document with the eTOD technical specifications.	PFF: SAM AIM/02	Juan González Uruguay		30/09/2012	Finalised on schedule. Delivered 30/09/2012
Guide for the acquisition of a geographical information system (GIS).	PFF: SAM AIM/01	Juan González Uruguay		09/03/2012	Finalised on schedule.
GIS implementation manual.	PFF: SAM AIM/01	Juan González Uruguay		09/03/2012	Finalised on schedule.
Present to States the different options available for surveying Area 2	ASBU:BO30 DATM	ICAO Coordinator		26/07/2013	Finalised on schedule.
Conduct seminars for eTOD specialists, describing the plans and expected operational and economic benefits.	PFF: SAM AIM/02 ASBU:BO30 DATM	ICAO Coordinator		30/03/2015	
Resources required	Designation of experts in the execution of some of the deliverables. More commitment by States to support the designated Coordinators and experts.				

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

APPENDIX B2

SAM Region	PROJECT DESCRIPTION (DP)	DP N° G2	
Programme	Title of the Project	Start	End
AIM (ICAO Programme Coordinator: Roberto Arca Jaurena)	G2: Implementation of Aeronautical Information Exchange Systems (AIXM) (SAM) Project coordinator: No coordinator Experts contributing to the project: SAM/AIM/IG	01/03/12	01/12/15
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 31/12/15.		
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 the CAR and SAM Regions. 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 GREPECAS PPRC 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 G3 “Implementation of the Quality Management Systems in the AIM units in SAM 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: SAM AIM/02	ICAO coordinator		16/03/12	Finalised on schedule at the SAM/AIM meeting.
Circulation of IAIP survey to States	PFF: SAM AIM/02	ICAO coordinator		16/03/12	Finalised on schedule at the SAM/AIM meeting.
Collection and updating	PFF: SAM AIM/02	ICAO coordinator		16/03/12	Finalised on schedule at the SAM/AIM meeting.
Collection of experiences in SAM States with the electronic AIP	PFF: SAM AIM/02	ICAO coordinator		16/03/12	Finalised on schedule at the SAM/AIM meeting.
Analyse Eurocontrol AIXM specifications	PFF: SAM AIM/02	ICAO coordinator		01/10/14	
Organise AIXM seminar	PFF: SAM AIM/02	ICAO coordinator		August 2015	
Develop guidance material	ASBU: BO30 DATM	ICAO coordinator		28/09/15	

Develop AIXM action plan for the States	PFF: SAM AIM/02 ASBU: BO30 DATM	ICAO coordinator		03/11/15	
Resources required	Designation of experts in the execution of some of the deliverables. Commitment by States to support the coordinators and experts.				

**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*

APPENDIX B3

SAM Region	PROJECT DESCRIPTION (DP)	DP N° G3	
Programme	Title of the Project	Start	End
<i>AIM</i> (ICAO Programme Coordinator: Roberto Arca Jáurena)	Assessment and development of QMS applied to AIM in SAM States Project coordinator: Oscar Díoses (Peru) Experts contributing to the Project: SAM/AIM IG David Díaz (Peru)	03/10/11	01/09/14
Objective	Implement guides applicable to the quality management system in a digital/electronic AIM environment in the SAM Region, based on the regional performance objectives of the SAM 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	50% of States with the ISO standard 9001:2008 implemented by 2013, and certified by 2014.		
Strategy	<p>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.</p> <p>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 GREPECAS PPRC by the Programme Coordinator.</p>		

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 G1 “Implementation of the provision of electronic terrain and obstacle data e-TOD” and G2 “Implementation of Aeronautical Information Exchange Systems (AIXM)”.				
Project deliverables	Relationship with the performance-based regional plan (PFF)	Responsible party	Status of implementation*	Delivery date	Comments
Prepare surveys to establish the levels of compliance and implementation of AIM-QMS based on ICAO guides	PFF: SAM AIM/01	ICAO coordinator		25/11/11	Finalised as scheduled.
Circulate surveys to the States	PFF: SAM AIM/01	ICAO coordinator		17/02/12	Finalised as scheduled.
Collect and tabulate the information of the States	PFF: SAM AIM/01	ICAO coordinator		13/04/12	Finalised on 30/03/12.
Description of steps for QMS implementation.	PFF: SAM AIM/01	SAM/AIM/WG		30/03/12	Finalised as scheduled.
QMS self-assessment questionnaire	PFF: SAM AIM/01	David Diaz RLA/06/901		30/03/12	Finalised as scheduled.

Template with QMS assessment results	PFF: SAM AIM/01	David Diaz RLA/06/901		30/03/12	Finalised as scheduled.
QMS implementation plan	PFF: SAM AIM/01	David Diaz RLA/06/901		19/10/12	Finalised as scheduled.
QMS procedures and preventive actions.	PFF: SAM AIM/01	Oscar Diones Peru		19/10/12	Finalised as scheduled.
QMS internal audit procedure.	PFF: SAM AIM/01	Oscar Diones Peru		19/10/12	Finalised as scheduled.
Procedure for controlling AIS service management system records	PFF: SAM AIM/01	Oscar Diones Peru		19/10/12	Finalised as scheduled.
Procedure for drafting QMS documents.	PFF: SAM AIM/01	Oscar Diones Peru		19/10/12	Finalised as scheduled.
Service control procedure – QMS non-conforming products.	PFF: SAM AIM/01	Oscar Diones Peru		19/10/12	Finalised as scheduled.
Procedures for controlling the documents of the AIS service management system.	PFF: SAM AIM/01	Oscar Diones Peru		19/10/12	Finalised as scheduled.
SLA with service providers to ensure the quality of the information and the AIM data exchange.	PFF: SAM AIM/01	Juan J. González Uruguay		19/10/12	Finalised as scheduled.

Collect certifications and produce report on the status of ISO 9001:2008 certifications in the SAM Region	PFF: SAM AIM/01	ICAO coordinator		01/09/14	
Resources required	Designation of experts in the execution of some of the deliverables. More commitment by States to support the designated coordinators and experts.				

**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*