



Agenda Item 2: Implementation of systems for Aeronautical Information Data Exchange and Aeronautical Data

**GREPECAS Project G2 –
Implementation of aeronautical information/data exchange systems**

(Presented by the Secretariat)

SUMMARY	
This working paper presents the Meeting the current status of implementation of GREPECAS Project G2.	
References:	
<ul style="list-style-type: none">• Annex 15 to the Convention of International Civil Aviation• SAM/AIM Multilateral Meetings.	
ICAO Strategic Objectives	<i>A - Safety</i> <i>B – Air navigation capacity and efficiency</i> <i>E – Environmental protection</i>

1 Background

1.1 Background related to GREPECAS G2 Project implementation can be found under SAM/AIM/4 and SAM/AIM/5 meetings. This project is considered as one of the pillars for those States which show more progress and have already surpassed Phase 1 of the Roadmap for the transition from AIS to AIM.

1.2 The Secretariat emphasized the importance of obtaining the quality certification before implementation of data exchange using AIXM Models, which are already of common use in Europe and the United States for aeronautical data/information transmission.

1.3 During the last meeting, some States indicated that they have downloaded information regarding the AIXM Model from following URL:
http://www.aixm.aero/public/standard_page/download.html.

1.4 In this regard, Uruguay indicated that in such site there can be found both, the AIXM Conceptual Model (AIXM 5.1: *AIXM Conceptual Model*), and the AIXM XML Schema (AIXM 5.1: *AIXM XML Schema*) for such Model, as well as a number of supporting documents (AIXM 5.1: *Supporting Documents*).

1.5 The meeting noted that the AIXM Conceptual Model is represented in UML (*Unified Modeling Language*) and that Star UML tool was used for its visualization. This tool is free of charge and can be downloaded from: <http://staruml.io/download> and installed with no license.

1.6 Panama has trained 90% of its AIM personnel. Remaining training phases are planned to be concluded by January 2015. In such way, the implementation of electronic AIP publication in the Republic of Panama would be finalized.

1.7 The Secretariat called attention to the fact that Panama made the necessary efforts to update AIXM Model to Version 5.1 which is currently used, as the acquired system manages a previous version.

1.8 Regarding AIXM training, the Secretariat recalled the need to be certified in quality in order to be able to exchange data, and that Seminars on AIXM have already been conducted in the Region. AIXM training should be optimized and therefore it is necessary to level States at the same quality standards in order to perform the second step towards the digital phase.

2 Discussion

2.1 **Project G2** - “*Implementation of Aeronautical Information Exchange Systems (AIXM)*” as shown in **Appendix A**, still has no Coordinator and tasks have been performed by the Secretariat. Nor have the States offered to contribute with other experts to coordinate the tasks and developments under this Project.

2.2 The Secretariat produced the deliverables that were possible using the information provided at the SAM/AIM/3 and SAM/AIM/4 meetings, but the project on the exchange of aeronautical data and information is behind schedule.

2.3 Notwithstanding the above, the delay in this Project does not have a significant impact, since the ASBU methodology has extended the implementation target date, and there is a delay in the development by Headquarters of the corresponding SARPs regarding the characteristics and operational use of exchange models currently valid in Europe and the United States.

2.4 The Secretariat also considers it of utmost importance to incorporate experts in information technologies with abilities in automation, especially in data transmission platforms, and expertise in database management and metadata.

2.5 The aforesaid relates to the second phase of the transition from AIS to AIM. It is very important for States to anticipate to the needs required for this phase of the transition.

Analysis of the achievement of goals based on Project G2 indicators/metrics:

- Number of States that have implemented an action plan for data exchange systems. **0%**

3 Suggested action:

3.1 The Meeting is invited to:

- a) analyse the activities of Project G2 and propose actions towards its revitalization in order to meet the future needs of information exchange;
- b) consider the designation of a Project Coordinator among the actions to be analysed.

APPENDIX A

SAM Region	PROJECT DESCRIPTION (DP)		DP N° G2	
<i>Programme</i>	Project title		Start	End
<p><i>AIM</i></p> <p>(ICAO Programme Coordinator: Roberto Arca Jaurena)</p>	<p>G2: Aeronautical information/data management (SAM)</p> <p>Project: There is no coordinator</p> <p>Experts contributing to the project: SAM/AIM/IG</p>		01/03/12	31/12/15
Objective	Prepare an action plan to be followed by the States for the application of the Aeronautical Information/Data Exchange Model			
Scope	The scope of the Project covers the assessment 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 of the development of SARPs on this topic.			
Metrics	Number of States with data exchange systems Action Plan implemented			
Goals	Complete all the documentation required for the States before 31/12/15.			

<p>Strategy</p>	<p>The implementation of Project activities will be coordinated amongst Project members, the Project Coordinator and the Programme Coordinator, mainly through teleconferences (<i>GoToMeeting</i> tool) as well as seminars/meetings in function of the activities of the work programme. The Project Coordinator will coordinate with the Programme Coordinator the inclusion of additional experts if so required 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 State experts in the form of a final consolidated document for analysis, revision and approval, and will be submitted by the Programme Coordinator to the GREPECAS PPRC.</p>				
<p>Rationale</p>	<p>Integrate aeronautical information to enable ATM systems interoperability, while maintaining safety, applying information exchange models.</p>				
<p>Related projects</p>	<p>It is related to Project G3 “<i>Assessment and development of AIM QMS in SAM States</i>”</p>				
<p>Project deliverables</p>	<p>Relationship with the Regional performance-based plan (PFF)</p>	<p>Responsible party</p>	<p>Status of Implementation*</p>	<p>Delivery date</p>	<p>Remarks</p>
<p>Survey of IAIP provision using a table.</p>	<p>PFF: SAM AIM/02</p>	<p>ICAO Coordinator</p>	<p style="background-color: green;"></p>	<p>16/03/12</p>	<p>Completed on schedule at the SAM/AIM meeting..</p>
<p>Distribution of IAIP survey to States.</p>	<p>PFF: SAM AIM/02</p>	<p>ICAO Coordinator</p>	<p style="background-color: green;"></p>	<p>16/03/12</p>	<p>Completed on schedule at the SAM/AIM meeting.</p>
<p>Collection and updating</p>	<p>PFF: SAM AIM/02</p>	<p>ICAO Coordinator</p>	<p style="background-color: green;"></p>	<p>16/03/12</p>	<p>Completed on schedule at the SAM/AIM meeting.</p>
<p>Compilation of the experience of SAM States with the electronic AIP.</p>	<p>PFF: SAM AIM/02</p>	<p>ICAO Coordinator</p>	<p style="background-color: green;"></p>	<p>16/03/12</p>	<p>Complete don schedule at the SAM/AIM meeting.</p>

Analyse Eurocontrol AIXM specifications.	PFF: SAM AIM/02	ICAO Coordinator		TBD	
Organize AIXM Seminar.	PFF: SAM AIM/02	ICAO Coordinator		TBD	
Development of guidance material.		ICAO Coordinator		TBD	
Development of an AIXM Action Plan for States.	PFF: SAM AIM/02	ICAO Coordinator		TBD	
Necessary resources	Designation of experts to execute some of the deliverables. Greater commitment of States to support coordinators and experts who are working.				

- *Grey *Task not started*
- Green *Activity underway as scheduled*
- Yellow *Activity started with some delay but would be completed as scheduled.*
- Red *This activity has not been implemented as scheduled and mitigation measures are required*