



Agenda Item 1: Follow-up to the implementation of air navigation priorities

Follow-up to AIM implementation goals

(Presented by the Secretariat)

SUMMARY

This working paper addresses GREPECAS programmes and projects in the context of the transition from AIS to AIM, showing the progress made by States, territories, and international organisations in the SAM Region in the implementation of the quality management system (QMS), which is a goal established in the Declaration of Bogota. It also presents the progress made concerning the availability of electronic terrain and obstacle data (e-TOD) sets by users, and AIXM, which are being addressed as part of the second AIS-to-AIM transition phase.

References

- Third meeting of Air Navigation and Flight Safety Directors, Lima, Peru, 22-24 October 2016.
- Annex 15 – Aeronautical information services
- ICAO AIS-to-AIM transition roadmap
- SAM/AIM/10 meeting

ICAO strategic objectives:

- *A – Safety*
- *B – Air navigation capacity and efficiency*

1. Introduction

1.1 The completion of Phase 1 of the AIS-to-AIM transition roadmap is very important for the consolidation of AIS services.

1.2 The Third meeting of Air Navigation and Flight Safety Directors examined the status of implementation of the steps contemplated in Phase 1.

1.3 The proposal of amendment of Annex 15, circulated in April 2017, includes guidelines for the transition to Phase 2 of the roadmap, based on technological availability.

1.4 The SAM/AIM/10 meeting updated the data concerning Phase 1 implementations.

2 Discussion

2.1 The AN&FS/3 meeting reviewed the progress made with respect to AIM goals contained in the Declaration. The meeting took note that, from all the items in Phase 1 of the AIS-to-AIM transition roadmap, the project on the implementation of quality management in aeronautical information management (AIM) units was hindering completion the most.

2.2 The meeting reviewed the status of certification of already implemented AIM/QMS systems, as well as the new scenario resulting from changes made to standard ISO 9001 in September 2015, which involves new requirements that affect States, both certified and not certified.

2.3 The SAM/AIM/10 meeting, upon reviewing AIM/QMS implementation, took note of the action plans of those States that had not yet implemented the quality management system in AIM processes. In this regard, **Bolivia** reported no major progress due to successive changes in proceedings, which have delayed the process. In turn, **Guyana** noted that personnel training in version 2015 of standard ISO 9001 had been completed and that they already had a draft Quality Manual, which was currently under review. **Panama** noted that it was conducting an internal audit, and that certification audits on version 2015 of the standard would be conducted between November and December 2017. It stated that the change made to standard ISO 9001 in 2015 had created a new implementation scenario, since all certifications issued under version 2008 of the standard would expire in September 2018. **Venezuela** reported that the adjustment of the QMS implemented in AIM areas to version 2015 would be completed in November 2018. The certification of the implemented QMS would be difficult to achieve because there was no ISO 9001 certifying agency in this State.

2.4 Regarding those States that had certified their AIM/QMS under version 2008 of the standard, the SAM/AIM/10 meeting took note of their plans to adjust such systems to the requirements of version 2015, as explained below:

- Argentina: no progress made in planning, and there is no assurance of obtaining the re-certification by September 2018.
- Brazil: all processes are being carried out, and would be able to re-certify in November 2017.
- Chile: the certification audit was conducted in July 2017 with minor findings, for which corrective action plans have been submitted. Re-certification is expected in December 2017.
- Paraguay: has re-certified in July 2017.
- Peru: training has been provided to the personnel in version 2015 of the standard. At present, CORPAC S.A is making arrangements with an ISO 9001 certifying company to conduct the second ISO 9001:2008 maintenance audit and the migration to ISO 9001:2015.

The latest update on the status of quality implementation is as follows:

STATE	% IMPLEMENTATION OCTOBER 2016	IMPLEMENTATION DATE	% PROGRESS	Progress made in version 2015	REMARKS
Argentina	100%	FEB/2016	30%	No progress	Planning still at a very basic level
Bolivia	30%	TBD	0%		The provider, AASANA, has trained two experts for quality implementation. A DGCA official attended the Lead Auditor course conducted in October 2015.
Brazil	CERTIFIED	-----	-----	95%	Foresee re-certification in November 2017
Chile	CERTIFIED	-----	-----	95%	Certification audits have already been conducted, with minor findings. Re-certification foreseen for December 2017
Colombia	90%	SEP/2014	25%	No progress	Consulting services have been hired for certification of AIM and MET QMS.
Ecuador	Has not obtained re-certification	-----	-----	No progress	No information on plans for re-certification
French Guiana	CERTIFIED	-----	-----	No progress	
Guyana	60%	DEC/2017	35%		Implementation and certification plan submitted. Implementation to be completed in July 2018
Panama	100%	DEC/2017	10%	Initial planning foresees certification in December 2017	Administrative constraints prevented certification. Target date is December 2017 for ISO 9001:2015

STATE	% IMPLEMENTATION OCTOBER 2016	IMPLEMENTATION DATE	% PROGRESS	Progress made in version 2015	REMARKS
Paraguay	CERTIFIED	-----	-----	Certified	Certified under ISO 9001:2015
Peru	CERTIFIED	-----	-----	90%	All necessary arrangements are being made with a certifying company for the conduction of the second ISO 9001:2008 maintenance audit and migration to ISO 9001:2015.
Suriname	50%	AUG/2014	5%	No progress	Submitted an action plan
Uruguay	CERTIFIED	-----	-----	No information	No information available
Venezuela	85%	NOV/2014	0%	70%	Implementation of version 2015 to be completed in November 2018

2.5 In this regard, the authorities should ensure top management support, translated in budgetary support for completion of AIM/QMS implementation and certification.

Supplementary AIM activities related to the second transition phase

2.6 The Meeting should consider actions for the transition to the provision of aeronautical information in an electronic environment.

2.7 Regarding e-TOD, this is a standard since 12 November 2015. However, except for Argentina, Brazil, Paraguay, and Ecuador, no significant progress has been made in its implementation. The corrective action plans presented by the States have a horizon of 2022 inclusive. The AN&FS meeting, being a higher-level forum, should consider giving more support to this issue, since e-TOD implementation requires the provision of human and financial resources for the acquisition of software, equipment, the provision of training, and the conduction of pending tasks for the completion of e-TOD implementation. It should be noted that one of the most important applications for e-TOD is the design of procedures for PBN implementation, amongst others. State action plans and their status may be seen in the following table:

SAM States	Action plan	Follow-up
<i>Argentina</i>	Estimated date: 27 November 2019	Will review the Action Plan and corrections will be sent with more detailed information.
<i>Bolivia</i>	Start date for corrective actions: July 2017	Corrective actions have started on the scheduled date.
<i>Brazil</i>	2017 - 8 AD 2018 - 8 AD 2019 - 8 AD 2020 - 7 AD 2021 - 7 AD 2022 - 7 AD	Brazil modified its action plan as indicated.
<i>Chile</i>	Completion scheduled for 2022. Surveying in Area 2a, 2b and 2c have started at the airports of Arturo Merino Benítez in Santiago and Chacalluta in Arica.	Surveying has been completed at the Diego Aracena airport in Iquique.
<i>Colombia</i>	No plan has been submitted.	
<i>Ecuador</i>	No plan has been submitted.	
<i>French Guiana</i>	No plan has been submitted.	
<i>Guyana</i>	Estimated start date: April 2017. The seven first items of the Action Plan should have been completed by now.	Guyana reports that work will be conducted according to the plan.
<i>Panama</i>	No plan has been submitted.	
<i>Paraguay</i>	Data collection for Areas 2a, b, c, d has been completed. Other activities related to e-TOD are foreseen for 2016-2019.	
<i>Peru</i>	No plan has been submitted.	Peru will hold a meeting between the civil aviation authority, the service provider (CORPAC) and aerodrome operators for drafting the Plan.
<i>Suriname</i>	No plan has been submitted.	
<i>Uruguay</i>	No plan has been submitted.	
<i>Venezuela</i>	Terrain and obstacle data will start being collected on the second half of 2017.	

2.8 Regarding AIXM implementation, very significant progress has been made in the Region. Even the first data exchange tests through AIXM have been carried out successfully between Argentina and Panama. Additional tests are scheduled for this year, possibly involving Venezuela, Brazil, Argentina and Panama. However, despite the success achieved, the other States must join AIXM implementation, since benefits will be greater if implementation is carried out at regional level.

3 Suggested action

3.1 The Meeting is invited to:

- a) take note of the information presented in this paper;
- b) review and discuss AIM/QMS implementation and certification activities;
- c) review and discuss e-TOD and AIXM implementation activities; and
- d) take any other action it may deem appropriate.

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