



Agenda Item 4: Review of Phase 2 of AIS-to-AIM transition

Follow-up to the Implementation of Digital sets of Terrain and Obstacle data (TOD)

(Presented by the Secretariat)

EXECUTIVE SUMMARY	
This working paper presents the follow-up to the TOD implementation in the SAM Region.	
References: <ul style="list-style-type: none">• Annex 15 – Aeronautical Information Services• SAM/AIM/13 Meeting Report• Roadmap of the Transition from AIS to AIM	
ICAO strategic objectives:	<i>A – Safety</i> <i>B – Capacity and efficiency</i>

1. Introduction

- 1.1 Annex 15, in its Amendment 40, restructures the Annex and presents the requirement of the Digital Data Set.
- 1.2 Doc 10066 PANS-AIM provides a description of what each Terrain and Obstacle Digital Data Set should contain, as one of the DDS.
- 1.3 SAM/AIM/13 monitored the implementation status of the Terrain and Obstacle Digital Data Set.

2. Discussion

- 2.1 SAM/AIM/13 had followed up on TOD implementation. In the Table shown in **Appendix A**, you can see the status of implementation reported during the aforementioned meeting.
- 2.2 The Secretariat, in successive meetings, has observed that the implementation of the e-TOD Digital Data Sets has suffered a significant delay. The context of the pandemic has further delayed the construction of both sets of digital data. States should make an effort to implement these requirements.

2.3 The Secretariat urges States to update the information contained in the Table shown in Appendix A.

3. **Suggested action**

3.1. Se invita a la Reunión a: The Meeting is invited to:

- a) take note of the information presented in the WP;
- b) provide information to update the table;
- c) update the corrective Action Plan; and
- d) consider other actions that they deem necessary.

- END -

APPENDIX A
(Updated on 15/05/2020)

STATES OF THE SAM REGION	ACTION PLAN	FOLLOW-UP
<i>Argentina</i>	Estimated date: 27 November 2019	The Action Plan will be reviewed and corrections will be sent with more detailed information.
<i>Bolivia</i>	Corrective action start date: July 2017	Corrective actions have started on the indicated date
<i>Brazil</i>	2017 - 8 AD 2018 - 8 AD 2019 - 8 AD 2020 - 7 AD 2021 - 7 AD 2022 - 7 AD	Has reported on the progress of its e-TOD program, the availability of eTOD data through a GIS portal, as well as its application in procedure designs, and as for UAS.
<i>Chile</i>	Completion is scheduled for 2022. According to the report presented in the eCRPP/3, it would be delayed due to the pandemic.	Has raised obstacles in 5 airports and one is in process, but due to the situation of the pandemic, it would be postponed. In addition, they are working to make the data available through a portal that they are preparing with ESRI, but this has no implementation date yet.
<i>Colombia</i>	Has not submitted a Plan.	The area is managed by the Procedure Design Group.
<i>Ecuador</i>	Has not submitted a Plan.	Reported that they are working to lift obstacles through the use of drones and with the advice of IFAIMA experts.
<i>Guyana Francesa</i>	Has not submitted a Plan.	

<p><i>Guyana</i></p>	<p>Estimated start date: April 2017. To date, the first seven points of the Action Plan presented should have been completed.</p>	<p>They are in the initial stage. The process began when one of its officers attended the ICAO CAR/SAM seminar on e-TOD in Mexico City in 2015. Last year (2019), COCESNA provided theoretical training on PANS/OPS and RNAV/RNP design procedures to various officers. Currently, the on-the-job training process is being discussed with the company.</p>
<p><i>Panama</i></p>	<p>Has not submitted a Plan.</p>	<p>Tocumen S.A. has carried out the lifting of obstacles at the Tocumen and Panama Pacific airports. These data have been sent to the Civil Aviation Authority of Panama. In relation to the other international airports, they have not registered any progress.</p>
<p><i>Paraguay</i></p>	<p>Data collection for Areas 2a, b, c, d completed. Other activities related to e-TOD are planned for 2016 to 2019.</p>	<p>Has not submitted a Plan.</p>
<p><i>Peru</i></p>	<p>Has not submitted a Plan.</p>	<p>The e-TOD project in Cusco could not be finalized due to breach of the supplier. A DGAC-CORPAC work team is being formed, which in this first phase will carry out the analysis and evaluation of the new implementation date, which will take until October. As a second phase, the aerodrome operators will be summoned to prepare the plan. It is planned to have the plan for the month of November and make it known to ICAO</p>
<p><i>Suriname</i></p>	<p>Has not submitted a Plan.</p>	
<p><i>Uruguay</i></p>	<p>Has not submitted a Plan.</p>	<p>They are in meetings with providers of raw e-TOD data (without processing). They have established working groups with the companies that carry out the obstacle lifting</p>

		work and are in the process of preparing a tender to acquire a system to process this data.
<i>Venezuela</i>	In the second half of 2017, will start with the corresponding terrain and obstacle data.	Reported that it currently has an automated, interoperable system with a database of obstacles and terrain capable of being exported in AIXM, HTML or Shape File format, if the user so requires.