



**Agenda Item 2: Optimization of the SAM airspace**

**IMPLEMENTATION OF VERSION 5 ROUTES NETWORK**

(Presented by the Secretariat)

<b>SUMMARY</b>	
This paper presents implementing progress of the version 5 initiatives for Regional and interregional route network.	
<b>References:</b>	
<ul style="list-style-type: none"><li>• SAM/IG meetings</li><li>• ATS/RO/10 meeting</li></ul>	
<b>ICAO strategic objectives:</b>	<i>A – Safety</i> <i>B. - Air navigation capacity and efficiency</i> <i>E – Environmental protection</i>

**1. Background**

1.1 The Tenth SAM Workshop/Meeting on ATS Routes Network Optimization (SAM ATSRO/10) was held at the Auditorium of the Centro de Estudios Aeronáuticos (CEA) in Bogota, Colombia, from 17 to 21 June 2019, under the support of RLA/06/901 Regional Project. The meeting analyzed the version 5 of Routes network, including regional and interregional initiatives.

**2. Analysis**

2.1 The Twelfth Meeting of the Coordination Committee of Project RLA/06/901 (RCC/12) had approved the initiative to request the services of ATS experts of the SAM Region, and of one expert of the CAR Region for the development of “Version 5 of the SAM route network in accordance with the PBN operational concept”.

2.2 The group of experts, made up by Messrs. Jose Gonzales, Marco Vargas and Cesar Turcios, of the administrations of Venezuela, Peru, and COCESNA, respectively, carried out its activities between 11 February and 1 March 2019, at the SAM Regional Office.

2.3 Of the 51 proposals contained in version 5 of the SAM route network, 32 corresponded to the CAR/SAM route interface, and 19 corresponded to the SAM Region, organised in two groups: 12 for the Pacific sector and 7 for the Atlantic sector.

2.4 The PBN task force of the CAR ANI/WG (PBN/TF) had met on 22-25 April at the Mexico NACC Office, and had reviewed the 32 proposals of version 5 that involved the CAR/SAM interregional airspace.

2.5 The Meeting took note of other initiatives and route and flow proposals developed by Jamaica and Uruguay, which were described in detail by the respective delegates. These initiatives were circulated for analysis by the three *ad hoc* groups: Atlantic, Pacific and CARSAM.

2.6 Likewise, the discussion included 4 route improvement proposals of Argentina and 4 of the FAA for the San Juan FIR and adjacent airspaces.

2.7 The presence of experts from Jamaica and the FAA was very beneficial, since the Meeting was able to analyse potential improvements to routes between the CAR and SAM Regions. Furthermore, a teleconference with COCESNA took place on Wednesday 19 June, which allowed for the consolidation of agreements on 7 initiatives to improve interregional routes of version 5.

### 3 Results

3.1 ATSRO/10 achieved agreements, as shown in Appendixes A, B and C (Atlantic, Pacific and CARSAM respectively) of the final report available in the following link;

<https://www.icao.int/SAM/Pages/MeetingsDocumentation.aspx?m=2019-06901-ATSRO10>

3.2 The Meeting noted that the results of the analysis and coordination might, in some cases, require internal review or validation by other technical or operational bodies of the State. In this regard, some of the proposals received were accepted, others were rejected, and others were considered to be sufficiently feasible for continued coordination through the Secretariat as needed.

3.3 In total, the Meeting analysed 59 initiatives {11 + 16 + 32}.

3.4 56 initiatives {11+16 + 29} were declared accepted (with date of publication/effectiveness agreed), or feasible subject to coordination.

3.5 3 initiatives {0 + 0 + 3} were declared rejected because were considered unfeasible.

3.6 A total of 8 proposals {2 + 0 + 6} could not be fully analysed because of the absence of the States at the Meeting.

3.7 The Meeting approved a conclusion, as follows;

<b>CONCLUSION</b> <b>SAM ATSRO/10-01 Implementation of Version 5 of the route network</b>	
<b>That:</b>  The participating SAM and CAR States that have agreed to the implementation described in the Appendixes A, B and C to the report of the SAM ATSRO/10 meeting:  a) provide for the calculation, design, coordination among authorities, and management of the aeronautical publication, as required for the publication of modifications or implementation of new RNAV routes according to the AIRAC dates agreed for each initiative/proposal, with two AIRAC cycles in advance; and  b) inform by e-mail to concern adjacent States/Administrations with copy to the Secretariat in both NACC and SAM Offices confirming the publication of the AIP amendment or supplement related to the implementation and including copy of such documentation.	<b>Expected impact:</b>  <input type="checkbox"/> Political / Global <input checked="" type="checkbox"/> Interregional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
<b>Why:</b> To comply with the implementation agreements of the Meeting	
<b>When:</b> Immediately	<b>Status:</b> Adopted by SAM ATSRO/10
<b>Who:</b> <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: Users/Industry	

3.8 As of October 10, 2019 (AIRAC), Argentina, COCESNA, Chile, Jamaica, Panama and Uruguay have published an AIP amendment or supplement linked to 12 RNAV-5 initiatives, with effective date December 5, 2019.

3.9 A number of routes will be published on AIRAC date 5 December with effective date 30 January 2020.

**4. Suggested action**

4.1 States are invited to take note of the information provided, proposing improvements for the implementation of version 5, as well as maintaining coordination and activities needed for compliance with ATSRO/10 agreements and conclusions.