



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

Follow up to the implementation of AMHS interconnection

(Presented by the Secretariat)

SUMMARY

This working paper presents the progress in the implementation of interconnection AMHS in the Region from the Thirteenth meeting of Civil aviation authorities (RAAC/13) where aviation authorities of the Region agreed to implement the priorities for air navigation and safety into the Declaration of Bogota.

References:

- Meeting of Air Navigation and Flight Safety Directors of the SAM Region (Lima, Peru, 21 – 23 October 2013)
- Thirteenth Meeting of Civil Aviation Authorities of the SAM Region RAAC/13 (Bogota, Colombia, 4 - 6 December 2013)
- Thirteenth Workshop/Meeting of the SAM Implementation Group SAM/IG/13 (Lima, Peru, 21 -24 April 2014)
- Fourteenth Workshop/Meeting of the SAM Implementation Group SAM/IG/14 Lima, Peru, 10 – 14 November 2014)
- Fifteenth Workshop/Meeting of the SAM Implementation Group SAM/IG/15 (Lima, Peru, 11 -15 May 2015)
- Third Meeting of the Programmes and Projects Review Committee (PPRC/3) Mexico City, 21 – 23 July 2015
- Summary of AIDC Teleconferences (March – August 2015)

<i>ICAO Strategic Objectives:</i>	<i>A – Safety B – Air navigation capacity and efficiency</i>
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1. Introduction

1.1 The interconnection of AMHS systems is intended to replace the current AFTN circuits for new circuits that allow the transmission of as much information (ATS data) at a higher speed, using the regional digital network REDDIG and the ultimate goal consists of the total migration of all the AFTN circuits by AMHS link.

1.2 The Thirteenth Meeting of Civil Aviation Authorities of the SAM Region RAAC/13 approved Conclusion RAAC/13-8 *Implementation of air navigation and safety oversight priorities* with the aim that States/territories of SAM Region implement the priorities of air navigation and safety in accordance with the regional goals agreed for the period 2014-2016 in the Declaration of Bogotá.

1.3 The AHMS systems interconnections represent one of the air navigation regional priorities of the Declaration of Bogota. In total, there are 26 the AMHS interconnections required for the SAM Region, of which four are already implemented and the remaining would be complete by the end of 2016, with the following distribution: 1 in 2013, 11 in 2014, 5 in 2015 and 5 in 2016. The distribution of implementation by States presented in the Meeting of Air Navigation and Flight Safety Directors is attached to this working paper as **Appendix A**.

2. **Analysis**

2.1 Since the RACC/13 to date, no AMHS interconnection foreseen in the Declaration of Bogota has been implemented. Still has already implemented only the interconnections: Peru-Colombia, Peru-Ecuador, Guyana - Suriname and Argentina-Paraguay.

2.2 During 2014 AMHS interconnection test were conducted in Brazil - Peru, Brazil - Argentina, and Brazil - Paraguay. Results of Brazil - Peru and Brazil - Argentina tests were positive but its implementation were delayed due to the Brazilian activities for the World Cup, the restructuring of the AMHS architecture and the installation tasks of the digital network REDDIG II, as well as problems in AMHS circuits during the initial phase of operation of the REDDIG II, superseded by the contractor after a period of almost two months.

2.3 As a result of the delay, the distribution of the implementation by State had to be updated and presented to the Meeting of Air Navigation and Flight Safety Directors of the SAM Region, which is attached as **Appendix B** to this working paper.

3 **Suggested actions**

3.1 The Meeting is invited to:

- a) Take note on the information presented in this working paper; and
- b) analyze and comment the implementation activities of the AMHS interconnection indicated in Section 2 of this working paper and its Appendixes, and inform their plans to comply with the AMHS implementation goals of the Declaration of Bogota.

APENDICE A

**REQUERIMIENTOS DE INTERCONEXIÓN AMHS Y FECHAS DE IMPLANTACION
METAS DE IMPLANTACION 2013-2016**

STATE/ESTADO	AMHS INTERCONNECTION REQUIREMENT/ REQUERIMIENTO DE INTERCONEXIÓN AMHS	IMPLEMENTATION DATE/ FECHA IMPLANTACION	REMARKS/ OBSERVACIONES
Argentina	Bolivia	Mar 2016	
	Brasil	Dec 2013	
	Chile	Dec 2014	
	Paraguay	Mar 2012	Implemented/ Implantado
	Perú	Jul 2014	
	Uruguay	Dic 2015	
Bolivia	Argentina	Mar 2016	
	Brasil	Abr 2016	
	Perú	May 2016	
Brazil	Argentina	Dic 2013	
	Bolivia	Abr 2016	
	Colombia	Dic 2014	
	Guyana	Mar 2015	
	Guyana Francesa	TBD	AMHS implementation pending/ Falta implantación AMHS
	Paraguay	Jul 2014	
	Perú	Jul 2014	
	Surinam	Mar 2016	
	Uruguay	Dic 2015	
	Venezuela	Dic 2014	
Chile	Argentina	Dic 2014	
	Peru	Dic 2014	
Colombia	Brazil	Dic 2014	
	Ecuador	Dic 2014	
	Panamá	Dic 2014	
	Peru	Sep.2010	Implemented/ Implantado
	Venezuela	Mar 2015	

STATE/ESTADO	AMHS INTERCONNECTION REQUIREMENT/ REQUERIMIENTO DE INTERCONEXIÓN AMHS	IMPLEMENTATION DATE/ FECHA IMPLANTACION	REMARKS/ OBSERVACIONES
Ecuador	Colombia	Dic 2014	
	Perú	Julio 2012	Implemented/ Implantado
	Venezuela	May 2015	
French Guiana (France) Guyana Francesa (Francia)	Brazil	TBD	AMHS implementation pending/ Falta implantación AMHS
	Venezuela	TBD	AMHS implementation pending/ Falta implantación AMHS
Guyana	Brazil	Mar 2015	
	Surinam	Jun 2011	Implemented/ Implantado
	Venezuela	Dic.2014	
Panamá	Colombia	Dic.2014	
Paraguay	Argentina	Mar 2012	Implemented/ Implantado
	Brazil	Jul.2014	
Perú	Argentina	Jul 2014	
	Bolivia	May 2016	
	Brasil	Jul.2014	
	Chile	Dic 2014	
	Colombia	Sep.2010	Implemented/ Implantado
	Ecuador	Julio 2012	Implantado
	Venezuela	Dic 2014	
Suriname, Paramaribo	Brazil	Mar 2016	
	Guyana	Jun 2011	Implemented/ Implantado
	Venezuela	Mar.2016	
Uruguay, Montevideo	Argentina	Dic 2015	
	Brazil	Dic 2015	

STATE/ESTADO	AMHS INTERCONNECTION REQUIREMENT/ REQUERIMIENTO DE INTERCONEXIÓN AMHS	IMPLEMENTATION DATE/ FECHA IMPLANTACION	REMARKS/ OBSERVACIONES
Venezuela	Brazil	Dic 2014	
	Colombia	Mar 2015	
	Ecuador	May 2015	
	Guyana	Dic.2014	
	Guyana Francesa	TBD	AMHS implementation pending/ Falta implantación AMHS
	Perú	Dic.2014	
	Surinam	Mar.2016	

APENDICE B

REQUERIMIENTOS DE INTERCONEXIÓN AMHS Y FECHAS DE IMPLEMENTACIÓN

ESTADO	REQUERIMIENTO DE INTERCONEXIÓN AMHS	FECHA IMPLEMENTACIÓN	OBSERVACIONES
Argentina	Bolivia	Mar 2016	
	Brasil	Dic 2015	Falta implantación operacional
	Chile	Dic 2015	
	Paraguay	Mar 2012	Implantado
	Perú	Nov 2015	
	Uruguay	Dic 2015	
Bolivia	Argentina	Mar 2016	
	Brasil	Abr 2016	
	Perú	May 2016	
Brasil	Argentina	Sep 2015	Falta implantación operacional
	Bolivia	Abr 2016	
	Colombia	Dic 2015	
	Guyana	Mar 2016	
	Guyana Francesa	TBD	Falta Implantación AMHS
	Paraguay	Dic 2015	
	Perú	Nov 2015	
	Surinam	Dic 2016	
	Uruguay	Dic 2015	
Chile	Argentina	Dic 2015	
	Perú	Dic 2015	
Colombia	Brasil	Dic 2015	
	Ecuador	Dic 2015	
	Panamá	Dic 2015	
	Perú	Sep 2010	Implantado
	Venezuela	Jun 2016	
Ecuador	Colombia	Dic 2015	
	Perú	Julio 2012	Implantado
	Venezuela	May 2016	
Guyana Francesa (Francia)	Brasil	TBD	Falta Implantación AMHS
	Venezuela	TBD	Falta Implantación AMHS
Guyana	Brasil	Mar 2016	

ESTADO	REQUERIMIENTO DE INTERCONEXIÓN AMHS	FECHA IMPLEMENTACIÓN	OBSERVACIONES
	Surinam	Jun 2011	Implantado
	Venezuela	Dic 2016	
Panamá	Colombia	Dic 2015	
Paraguay	Argentina	Mar 2012	Implantado
	Brasil	Dic 2015	
Perú	Argentina	Nov 2015	
	Bolivia	May 2016	
	Brasil	Nov 2015	Falta implantación operacional.
	Chile	Dic 2015	
	Colombia	Sep 2010	Implantado
	Ecuador	Jul 2012	Implantado
	Venezuela	Jun 2016	
Suriname	Brasil	Dic 2016	
	Guyana	Jun 2011	Implantado
	Venezuela	Jun 2016	
Uruguay	Argentina	Dic 2015	
	Brasil	Dic 2015	
Venezuela	Brasil	Dic 2015	
	Colombia	Jun 2016	
	Ecuador	May 2016	
	Guyana	Dic 2016	
	Guyana Francesa	TBD	Falta Implantación AMHS
	Perú	Jun 2016	
	Surinam	Jun 2016	