International Civil Aviation Organization SAM/IG/22-WP/13
South American Regional Office 16/11/18
Twenty-Second Workshop/Meeting of the SAM Implementation Group (SAM/IG/22) - Regional Project RLA/06/901
(Lima, Peru, 19 to 23 November 2018)

Agenda Item 4: Assessment of operational requirements to determine the implementation of improvements in communication, navigation and surveillance (CNS) capabilities for operations in route and terminal area

FOLLOW-UP TO THE IMPLEMENTATION OF THE AMHS INTERCONNECTION

(Presented by the Secretariat)

SUMMARY

This working paper presents information on the activities carried out since the SAM/IG/21 meeting for the implementation of the AMHS interconnection.

References:

- Twenty-First workshop/meeting of the SAM Implementation Group (SAM/IG/21) Lima, Peru, 21-25 May 2018
- Final report of the Twelfth coordination meeting of Project RLA/06/901 (Lima, Peru, 23 to 24 August 2018).
- Summary of teleconferences to follow up the implementation of the AMHS interconnection.

ICAO strategic objectives:	*A – Safety* *B – Air navigation capacity and efficiency*

1 Background

1.1 The implementation of the AMHS interconnection is one of the air navigation implementation priorities set forth in the Declaration of Bogota, which contemplated the implementation of 27 interconnections for the period 2014-2016. All AMHS interconnections required for the SAM Region are listed in Table CNS II-1 of Volume II of the CAR/SAM Regional Air Navigation Plan (Doc 8733 eANP).

2 Discussion

2.1 The progress reported, and the action taken, for the implementation of the AMHS interconnection in each SAM State, is shown below.

Argentina

2.2 The AMHS system update used in Argentina was completed. At the moment, only the AMHS interconnection between Ezeiza and Brasilia is available. The establishment of the following interconnections is estimated for the end of 2018:

- Ezeiza MTA – Asuncion MTA
- Ezeiza MTA – La Paz MTA
- Ezeiza MTA – Lima MTA
- Ezeiza MTA – Montevideo MTA
- Ezeiza MTA – Santiago MTA

2.3 In addition to the interconnections listed above, which are included in the Regional Plan, the following will be established:

- Ezeiza MTA – SITA GATEWAY
- Ezeiza MTA – Maiquetía MTA

Bolivia

2.4 All the tests between the La Paz MTA and Lima MTA were carried out successfully. It is expected that the route configurations will be carried out by the operators of the COM Center in La Paz, so that the AMHS interconnection can be established as operational. So far, the following AMHS interconnects are pending:

- La Paz MTA – Brasilia MTA
- La Paz MTA - Ezeiza MTA
- Ezeiza MTA - Lima MTA

Brazil

2.5 It is worth highlighting the commissioning of the following AMHS interconnections:

- Brasilia MTA - Georgetown MTA (October 11, 2018)
- Brasilia MTA - Madrid MTA (October 25, 2018)
- Brasilia MTA – Paramaribo MTA (October 11, 2018)

2.6 In addition to the interconnects listed above, which are included in the Regional Plan, the interconnection between the COM Center in Brasilia and the SITA Gateway in Atlanta, was established on August 16, 2018.

2.7 Teleconferences were held to establish the interconnection between the COM Center in Atlanta (FAA) and the COM Center in Brasilia. It is estimated that this interconnection will be operative by the end of December 2018.

2.8 No progress was reported in terms of coordination for AMHS implementation at the interconnection between the MTA of Brasilia and the MTA of Dakar. The interconnection between the Brasilia MTA and the Dakar MTA, will be implemented through the AFISNET VSAT network.

Chile

2.9. The AMHS operational implementation between the Santiago MTA and Ezeiza MTA is still pending, estimated for the end of 2018.

Colombia

2.10 AMHS interconnection operational tests were successfully carried out between the Bogotá MTA and the Panama MTA through the MEVA III/REDDIG II interconnection. For the operational implementation of this circuit, it is necessary to complete the administrative procedures with the MEVA III service provider. The circuit passes through the MEVA III/REDDIG II interconnection in Bogotá.

2.11 The interconnection between the COM Center in Bogotá and the COM Center in Quito is still pending, and estimated for the end of 2018.

Ecuador

2.12 Operational interconnection between Quito COM Center and Caracas COM Center was established on October 11, 2018.

2.13 The operational implementation between the Quito MTA and the Bogota MTA, is pending and scheduled for the end of 2018.

French Guiana

2.14 Coordination with Brasilia COM Center and Caracas COM Center began in October 2018. It is estimated that by the end of 2018, both AMHS interconnections will be established.

Guyana

2.15 On October 11, 2018, the interconnection between Georgetown COM Center and Paramaribo COM Center, was restored. The operational implementation of the AMHS interconnections of Georgetown MTA with Caracas MTA and Port Spain MTA, are scheduled for the end of December 2018.

Panama

2.16 In mid-February 2018, positive operational tests were carried out between Panama MTA and Atlanta MTA through the MEVA III, and the operational implementation was scheduled for the end of the first quarter of 2018. In relation to the status of implementation of the AMHS interconnection between the Panama MTA and Bogota MTA, see paragraph 2.10.

Paraguay

2.17 The following AMHS interconnections remain pending:

- Asuncion MTA – Brasilia MTA
- Asunción MTA – Ezeiza MTA

Peru

2.18 Regarding the interconnection activities between Lima MTA and La Paz MTA, see paragraph 2.4. The operational interconnection between Lima MTA and Ezeiza MTA, is scheduled for the end of 2018, and the interconnection between Lima MTA and Atlanta MTA through the MEVA III/ REDDIG II interconnection, is scheduled for December 2018.

Surinam

2.19 On October 11, 2018, the AMHS interconnection was reactivated with the COM Centers of Brasilia and Georgetown. The interconnection with the COM Center in Caracas is still pending, which is estimated for the first quarter of 2019.

Uruguay

2.20 Regarding the AMHS operational interconnection between Montevideo MTA and Brasilia MTA, and between Montevideo MTA and Ezeiza MTA, these are planned for the end of the second half of 2018.

Venezuela

2.21 On October 11, 2018, the operational AMHS interconnection was established between the COM Center in Caracas and the COM Center in Quito.

2.22 Positive tests have been carried out between the Maiquetía MTA and the Ezeiza MTA (CIPE development system) in May 2018, and operational interconnection is planned for the end of the first half of 2018.

2.23 By the end of the second half of 2018 or the first quarter of 2019, operational interconnection of the Caracas MTA with the Atlanta MTA, Cayenne MTA, Georgetown MTA, Madrid MTA, and Port of Spain MTA, are planned.

Other considerations AMHS

2.24 From August 6 to 10, 2018, the Advanced AMHS Course was held in Santiago, Chile, with the attendance of 26 representatives from Bolivia, Brazil, Chile, Ecuador, Guyana, Paraguay, Suriname, Trinidad and Tobago, Uruguay and Venezuela.

2.25 The status of implementation of all AMHS interconnections in the SAM Region and the date of their operational implementation, are shown in **Appendix A** of this Working Paper. It is estimated that by June 2019, all the AMHS interconnections included in Table CNS II-1 of Volume II of the CAR/ SAM Regional Air Navigation Plan (Document 8733), will be completed. Appendix B presents the updated list of focal points for the implementation of AMHS interconnections.

2.26 It is recalled that every change that a State makes in addressing AMHS, must be communicated to the ATS Message Management Center (AMC) of EUROCONTROL, according to the procedure established in the letter to the ICAO States AN 7/49.1-09/34 of April 14, 2009. According to this procedure, the communication to the AMC must be made by an external operator nominated by the State.

3. Suggested actions

The Meeting is invited to:

a) Take note of the information presented; and

b) analyze the activities carried out and planned described in section 2 and the respective appendices.

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