



Item3 of

The Agenda:

**Report of activities and deliverables of the
Interoperability Task Group and Subgroups**

**REPORT OF THE INTEROPERABILITY TG AND SUBGROUPS PROGRESS IN
ARGENTINA**

(Prepared by Argentina)

SUMMARY

This study note presents the state and progress of the activities carried out by Argentina in the field of Interop TG and Subgroups ATM/AIDC, ATM/FPL, CNS/AMHS, CNS/SUR and MET/ IWXXM.

References:

- Final Report of the SAM/IG/22 Meeting (Lima-Perú, from the 19th to the 23rd of November, 2018)
- Final Report of the SAM/IG/24 Meeting (Lima – Perú, from the 4th to the 8th of November, 2019)

1. Background

1.1 The SAM Region Interoperability Task Group was created at the SAM/IF/22 Meeting (Lima-Perú, from the 19th to the 23rd of November, 2018) to support and promote air navigation service modernization initiatives and to ensure interoperability among the automated systems used by the AIM, ATM, ATFM, CNS, and MET users.

1.2 At the SAM/IG/24 Meeting (Lima – Perú, from the 4th to the 8th of November, 2019), the following Subgroups were activated with participation of specialists from the ANAC -aeronautical authority-, air navigation service provider EANA S.E. and the National Meteorological Service: Subgroups ATM/AIDC, ATM/FPL, CNS/AMHS, CNS/SUR, and MET/IWXXM.

2. Analysis

2.1 The following are the activities carried out by the subgroups during the year 2020 following the SAM/IG/24 Meeting:

2.2 ATM/AIDC SUBGROUP

2.2.1 Members: Diego Agüero (ANAC), Mario Correa, Antonio González, CarinaLeban, Lucas Fernández (EANA).

2.2.2 Activities: The ATM/AIDC subgroup participated in the teleconference organized by the SAM regional office to follow up on the actions taken for the ATS Inter-facility Data Communication (AIDC) implementation by the States of the SAM Region.

2.2.3 Situation and estimates: At the moment there are no implemented and operational AIDC services on the projected 17 links (6 national, 10 regional, 1 intraregional). Work is currently underway on the first phase of national implementation on the 5 ACC. In the second phase, operational implementation tasks will begin in the adjacent ACCs, such as the operational establishment of the AIDC between Córdoba ACC and Iquique ACC.

2.3 ATM/FPL SUBGROUP

2.3.1 Members: Marcelo Cancinos (ANAC), Lucas Fernández (EANA)

2.3.2 Activities: The ATM/FPL subgroup dealt with the standard format for ACK and REJ(flight plan acknowledgement/rejection), prepared guidance for error mitigation and duplication/multiplicity of flight plans and the coding used for SID/STAR in flight plans. The group also participated in three teleconferences organized by the SAM regional office, presented the proposals for the standardization of the ACK/REJ message format presented by Peru, the centralization of flight plan management in a unit with presentations made by the States, the results of the IATA survey of procedures applied in other regions and the application of the 7-character coding (Annex 11) for the SID/STAR by the airlines.

2.3.3 Situation and estimates: In order to correct the FPLs that enter with the SID and STAR coded in 6 characters, in each Area Control Center there are personnel dedicated to the correction of flight plans. In the short term, no centralization of flight plan management is foreseen and agreements with the airlines for flight plan management are expected to be maintained. The current regulation does not establish as mandatory the application of ACK/REJ formats.

2.4 CNS/AMHS SUBGROUP

2.4.1 Members: Moira Callegare (ANAC), Walter Rupo, Antonio González (EANA).

2.4.2 Activities: The teleconferences organized by the SAM Region were aimed at following up on the AMHS interconnections, the AMHS implementation in Uruguay and the updating of the Eurocontrol AMC database. They were also complemented by the activities carried out in the First Workshop/Meeting of COM AMHS Centers Operators of the SAM region (COM AMHS/1) held in virtual mode from the 20th to the 23rd of September, 2020, in which guidelines were developed for the preparation of Contingency Plans for the AMHS COM Centers in the SAM Region.

2.4.3 Situation and estimates: There are currently five AMHS interconnections (P1) in place: Ezeiza with Brasilia, Asuncion, Santiago, Lima and La Paz. The Ezeiza – Montevideo and Ezeiza – South Africa links remain connected by AFTN channels. Besides, there is a P1 connection with SITA (Atlanta node) implemented. A new AMHS interconnection (P1) with Venezuela is planned, and future intraregional interconnections of Ezeiza with Spain and South Africa are expected to be implemented through new REDDIG II nodes (MPLS). The purchase of a new AMHS System is planned for 2021 as a replacement for the system currently installed. The AMHS COM Center Contingency Plan is expected to be presented at the first workshop/meeting of the subgroups of the Interoperability Task Group (TG Interop/1).

2.5 CNS/SUR SUBGROUP

2.5.1 Members: Ricardo Abregú (ANAC), Mario Correa (EANA).

2.5.2 Activities: Argentina participated in the activities developed in the CNS/SUR Subgroup of the Interop TG that addressed the progress of ADS-B implementations in the Region and conducted the study to assess the feasibility of regional implementation of satellite ADS-B (Space-based ADS-B) in the SAM Region using REDDIG II as a regional IP technology platform for the distribution of surveillance data. This activity consisted of six teleconferences organized by the SAM

Regional Office in which the focal points designated by the States, industry representatives and air navigation service providers participated. The configuration options proposed by the company AIREON, which provides the Satellite ADS-B service, were analyzed, including technical, administrative and contractual aspects, and COCESNA participated to present its experience in the implementation of the Satellite ADS-B.

2.5.3 Situation and estimates: In this regard, the AIR NAVIGATION SERVICES PLAN 2020-2024 presented by the air navigation service provider EANA S.E. to the aviation authority – ANAC–anticipates the implementation of ground ADS-B systems to complement the current radar coverage, the upgrade of the current A/C mode to mode S and does not consider in the short term the use of the satellite ADS-B system in Argentina.

2.6 MET/IWXXM SUBGROUP

2.6.1 Members: Moira Callegare, José Saucedo (ANAC), Walter Rupo, Antonio González (EANA), Roxana Vasques Ferro, Claudia Ribero, Rodrigo Cortes (SMN).

2.6.2 Activities: The activities of the subgroup MET/IWXXM in which Argentina participated were the 3 teleconferences held to discuss the situation of the OPMET Regional Bank of the SAM Region. Argentina attended to the exhibition of Venezuela about the METAX System, which is the converter of the TAC format for the IWXXM Format for meteorological messages (OPMET). At the suggestion of the Regional Office, participation was extended to the Meteorology users in the presentation by Brazil of the system developed for the adaptation of the OPMET Regional Data Bank of Brasilia to implement the 78th Amendment of the ICAO Annex 3 and the functionalities available to national users.

2.6.3 Situation and estimates: The National Meteorological Service (SMN) has a format converter integrated to the message commuter. Tests have been conducted with the existing AMHS infrastructure and, as a result of the last tests, it was verified that the messages with files attached in IWXXM format transmitted from SMN enter correctly at the MTA located in the Communication Center (CECODI) of EANA in Ezeiza. The transmission and reception tests of messages between CECODI and the OPMET bank of Brazil are still pending(end-to-end link). During a transition period, the information will circulate in both formats (alphanumeric and IWXXM). EANA remains in collaboration to continue the testing. It is also planned to acquire a new AMHS system with all the components (MTA and User Agent) that meets the requirements of the abovementioned Amendment and has the capacity to handle messaging with the XML format, required by the regulation.

3. **Suggested actions:**

3.1 A meeting is scheduled to:

- a) Take note of the provided information;
- b) To consider the abovementioned projections for the planning of 2021 activities.