



APPENDIX C

ICAO SOUTH AMERICAN REGIONAL OFFICE

MNEMONIC RECORD – CNS/MET 01

SAM COM/MET 2019 Implementation Meeting April 23 to 25, 2019	
Regional strategy for COM/MET Coordination in the SAM Region	<p>Aeronautical meteorological services are the main users of communication systems for the transmission of operational meteorological messages (OPMET messages). In order to ensure good coordination between the MET services and the COM services, it has been necessary to carry out coordination meetings regionally, in order to establish agreements that allow maintaining the levels of efficiency and timeliness of the OPMET messages. Additionally, the new requirements introduced by amendment 78 to Annex 3 of the ICAO (Implementation of the IWXXM) (OPMET messages in XML/GML format) and the future management of OPMET messages in the SWIM environment, make it necessary to carry out this event. The strategy will be the following:</p> <ul style="list-style-type: none"> ✓ Until December 2020, support and promote the implementation of the IWXXM with the support of the AMHS systems containing the conversion modules from alphanumeric format to XML format, and the interconnection in AMHS between the States, which allows supporting the exchange of OPMET data in XML/GML format. ✓ Continuous task: <ul style="list-style-type: none"> a) Follow up on the implementation of the OPMET data exchange in XML/GML format. b) Follow up on the efficiency of the OPMET data exchange, as well as the opportunity of the same through the OPMET exchange controls.
Objective of the Meeting	<p>To guide the technical personnel of Communications and MET personnel of the SAM Region States, about the necessary coordinations for the implementation of the IWXXM model and of the XML/GML format of OPMET messages, as well as to review the cooperation agreements for the correct management and transmission of OPMET messages through communication systems.</p>



<p>Activities carried out by the SAM Region on COM/MET coordinations and OPMET messages in XML format</p>	<ul style="list-style-type: none"> ✓ COM/MET SIP Project, carried out by the SAM Regional Office for all the States of the Region, 1998 ✓ COM/MET Coordination and Implementation Meeting, Lima, July 2001 ✓ COM/MET Coordination and Implementation Meeting, San Andrés, Colombia, 2005 ✓ Coordination and Implementation Meeting COM / MET, Lima, 2011 ✓ Coordination Meeting COM / MET, Lima, 2015 ✓ Seminar on AIXM and WXXM, Lima, 2015 ✓ Seminar on SWIM and Messages XML, Lima, 2017.
<p>Current status of the SAM Region in terms of the efficiency of OPMET messages and the implementation of the OPMET message in XML format</p>	<p>The current situation of the States of the SAM Region shows that the messages have not yet been implemented in XML format. Brazil is able to receive and transmit in XML/GML format internally and the OPMET Data Bank of Brasilia is able to receive from the States in XML/GML format. For the transmission in XML format, the installation of the AMHS systems and the interconnection between the States in AMHS is essential, implementation that is in process in the Region. Regarding the efficiency and timeliness of OPMET messages, this has increased considerably in the last 4 years, according to the OPMET controls carried out by the OPMET Data Bank of Brasilia. Likewise, format errors have decreased by almost 10% due to Workshops that have been carried out in certain States where the greatest format error problems have been detected.</p>
<p>Nature of the event</p>	<p>The COM/MET Implementation Meeting will be held with the purpose of reviewing the results of the OPMET controls, studying the reasons that affect the efficiency of the message exchange, as well as opportunities for improvement in the preparation of the same. Additionally, methodologies and infrastructures necessary for the implementation of OPMET messages in XML/GML format will be explored and the necessary support will be provided to move to the digitalization and implementation of the SWIM.</p>



<p>Competences that the event will generate</p>	<ul style="list-style-type: none"> - Take note of opportunities for improvement related to the efficiencies of OPMET message exchange. - Take note of improvement opportunities related to OPMET message formats. - Take note of the necessary coordinations for the implementation of the exchange of OPMET messages in XML/GML format. Preparation of a schedule for the implementation of interconnections in AMHS, as well as updating of the AMHS systems to allow the exchange in XML/GML format and the implementation of the IWXXM model. - Take note of the necessary infrastructure and architecture necessary for the exchange of OPMET messages in a SWIM environment.
<p>Profile of the participants</p>	<ul style="list-style-type: none"> ✓ Personnel in charge of the OPMET exchange of the aeronautical meteorological services; ✓ Personnel in charge of AMHS systems of the States; ✓ ICT personnel that provides support to the aeronautical communications systems of the States.
<p>Next steps in the development of the strategy</p>	<ul style="list-style-type: none"> - Follow up on the implementation of improvement opportunities related to the efficiencies of the OPMET message exchange and in relation to the use of the correct formats of the same. - Follow up on the implementation of OPMET messages in XML format. - Follow up on the implementation of infrastructures related to communication systems that would allow the exchange of OPMET messages in XML/GML format. - Follow up on the implementation of the IWXXM model.
<p>Contact staff in the SAM Office</p>	<p>Mr. Jorge Armoa Regional Officer AIM/MET South American Regional Office jarmoa@icao.int</p> <p>Mr. Francisco Almeida Regional Officer CNS South American Regional Office falmeida@icao.int</p>