



Agenda Item 4: Review of Project H4 - OPMET Exchange and MET Tables of the CAR/SAM e-ANP

Status of OPMET data exchange in the SAM Region and new functionalities of the OPMET Bank

(Presented by DECEA - Brazil)

SUMMARY

This paper presents information on the status of OPMET data exchange in XML/GML format, the IWXXM model, the countries that have conducted tests using this new format, and the new functionalities available in the OPMET database.

References

- Amendment 78 to Annex 3
- Letter n° 52/CERNAI/14963 to the South American Regional Office

1. Introduction

1.1 The administration of the Brazilian OPMET database, conducted by the Department of Airspace Control (DECEA), after three years of working together with ATECH, completed the modernisation of the OPMET database in May 2021.

1.2 The modernisation process was aimed at adapting OPMET to the new ICAO requirements, such as the processing of meteorological messages in IWXXM format, the improvement of existing functionalities, and the addition of new ones.

2. Discussion

2.1 At the end of the OPMET modernisation process, the improvements made and the new functionalities of the OPMET bank were presented by ATECH at the workshop held online on 18-19 May 2021, some of which were highlighted by DECEA in the letter sent to the ICAO Lima Office on 29 September 2021:

- Modernisation of the human-machine interface (HMI), thus simplifying the use of OPMET;
- Use of a single HMI that includes functionalities of the web services and of OPMET;
- Full validation of all meteorological messages recognised by OPMET;
- The new bank is prepared to receive and transmit messages in the IWXXM format in the latest version 3.0;
- Graphical display of meteorological message data; and
- Development of new integrations with other systems using web services.

2.2 The OPMET bank of Brasilia has already conducted interoperability tests with Argentina, Guyana, Cuba and with the OPMET banks in Brussels and Vienna through the AMHS network, with requests for meteorological messages in TAC and IWXXM (RQM and RQX) format. Transmission of messages in the new format was successful.

2.3 In coordination with ICAO, Brazil will provide access through the OPMET bank WEBSERVICE to CAR/SAM States in three distinct phases, for consultation and insertion of TAC and IWXXM messages:

- in a first phase, the user will register in the OPMET system, and each State will receive its respective WEBSERVICE access token;
- in a second phase, access via WEBSERVICE will be granted only for consultation of messages directly to the OPMET bank; and
- in the third stage, consideration will be given to extending the use of WEBSERVICE, allowing the insertion of meteorological messages directly into OPMET through an internet browser.

2.4 The access phases are necessary for Brazil (DECEA) to assess possible operational and technical impacts on the OPMET bank.

2.4 The use of the OPMET service via WEB must be formally requested by the countries concerned to DECEA authorities, through the ICAO Regional Office in Lima.

3. Suggested action

3.1 The Meeting is invited to:

- a) take note of the information presented in this paper.
