



International Civil Aviation Organization

**SEVENTEENTH MEETING OF THE METEOROLOGY
SUB-GROUP (MET SG/17) OF APANPIRG**

Bangkok, Thailand, 13 – 16 May 2013

Agenda Item 10: MET support to ATM

10.1) review of relevant ICAO meetings (ATMRPP, MARIE-PT)

REVIEW OF MARIE-PT MEETING

(Presented by the Secretariat)

SUMMARY

This paper presents an overview of the Second Meeting of the Meteorological Aeronautical Requirements and Information Exchange Project Team (MARIE-PT/2).

1. Introduction

1.1 The Second Meeting of the Meteorological Aeronautical Requirements and Information Exchange Project Team (MARIE-PT/2) was held in Brussels, Belgium, from 6 to 8 March 2013.

2. Discussion

2.1 In its discussions, MARIE-PT/2 addressed agenda items concerning Air Traffic Management (ATM) requirements for meteorological information, the digital representation of meteorological information to support ATM and consideration of the associated input/preparations required for the proposed Meteorology (MET) Divisional Meeting in July 2014.

2.2 The list of agenda items and a table of follow-up actions from MARIE-PT/2, along with supporting documentation and other related information, are available on the MARIE-PT website:

<http://www.icao.int/safety/meteorology/MARIE-PT/Pages/default.aspx>

2.3 A draft of the concept of operations document for MET support to global ATM (available on the website above) was considered by MARIE-PT/2, which also considered the content of this document in light of MARIE-PT's ongoing liaison with the Air Traffic Management Requirements and Performance Panel (ATMRPP).

2.4 MARIE-PT/2 also considered a draft of the *Manual on the Digital Exchange of Aeronautical Meteorological Information* (Doc 10003 – which also available on the website above), which is referred to in Amendment 76 to Annex 3 — *Meteorological Service for International Air Navigation* (applicability from 14 November 2013), and agreed to complete its work on a consolidated version of this manual by the end of May 2013.

2.5 The meeting is reminded that outcomes from MARIE-PT/2 were also reported at the recent Eleventh Meeting of the Regional OPMET Bulletins Exchange Working Group (ROBEX WG/11), which included an overview of the following points of information:

- a) IWXXM is the ICAO Meteorological Information Exchange Model;
- b) details of the IWXXM are to be included in the *Manual on the Digital Exchange of Aeronautical Meteorological Information* (Doc 10003) (to be formally published by ICAO by November 2013);
- c) WMO TT-AvXML¹ is developing the XML² schema;
- d) digital exchange will initially include METAR/SPECI, TAF and SIGMET;
- e) ICAO is required to check the logic of the UML³ diagrams;
- f) XML schema are expected to be ready in late March for comment, then release in July for testing;
- g) Regional OPMET Databanks (RODBs) are required to assist with the testing;
- h) Amendment 76 to Annex 3 will enable bilateral exchange of OPMET in digital format (XML) from November 2013 by States in a position to do so;
- i) ICAO format (IWXXM) is to be used for OPMET exchange (internationally);
- j) XML increases the file size (of OPMET messages) by a factor of 40 (approx.), which would require file compression before transmission;
- k) AFTN⁴ won't be adequate as a communication channel (for XML); and
- l) digital exchange of aeronautical meteorological information will require implementation of Air Traffic Services (ATS) Message Handling System (AMHS).

3. Action by the Meeting

3.1 The meeting is invited to note the information contained in this paper.

¹ World Meteorological Organization, Task Team on Aviation XML

² Extensible Markup Language

³ Unified Modeling Language

⁴ Aeronautical Fixed Telecommunication Network