



World Meteorological Organization
Organisation météorologique mondiale

Secrétariat

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Weather • Climate • Water
Temps • Climat • Eau

Our ref.: OBS/WIS/DRMM/AvXML

GENEVA, 10 February 2015

Annexes: 2

Subject: Call for experts to assist the Commission for Basic Systems develop data representation standards to support international civil aviation

Action required: Provide expert(s) to continue the development of information in support of international civil aviation

Dear Sir/Madam,

The conjoint WMO/ICAO Meteorology Divisional Meeting held in Montréal from 7 to 18 July 2014 considered the implications for meteorology of the plans by ICAO to implement the System-Wide Information Management (SWIM) environment to support the future Air Traffic Management system. The final report of the meeting recorded that further development of data representations would be needed to meet the expectations of SWIM. The Commission for Basic Systems (CBS) at its 2014 extraordinary session (CBS-Ext.(2014)) also considered the implications of SWIM and concluded that the work of the ad hoc Task Team on Aviation XML would need to be extended to include representation of all the information in support of international civil aviation that is required by the WMO *Technical Regulations* (WMO-No. 49, Volume 2), and also that experts developing the WMO Information System (WIS) would need to coordinate their work with the CAeM Expert Team on Information and Services for Aviation.

In considering its support to the ICAO SWIM concept, CBS identified that in addition to the extra demands on the time of experts for developing new data representations, meeting the needs of ICAO would require the development of training materials and the implementation of training activities that would need the assistance from experts with expertise in training and development in the aviation environment.

I would like to thank those Members who contributed the time of their experts to develop the first data representations in support of SWIM that form the basis of the XML representation of meteorological information supporting international civil aviation that is called IWXXM. Congress at its seventeenth session will consider the CBS recommendation to approve IWXXM.


To: Permanent Representatives (or Directors of Meteorological or Hydrometeorological Services) of Members of WMO (PR-6821)

cc: Hydrological Advisers to Permanent Representatives

I would like you to consider whether you are able to contribute further time and support for experts to continue the development of information in support of international civil aviation. A list of current participants in the work of the CBS Task Team on Aviation XML (TT-AvXML) is given in Annex 1. The working language of TT-AvXML is English. The terms of reference for TT-AvXML are given in Annex 2. Although most of the work of the expanded team will be by correspondence or teleconference, a limited number of meetings will be needed to resolve complex issues.

If you are able to provide experts to assist with this task, please submit the form at <http://wis.wmo.int/file=1117> and send a copy to wis-help@wmo.int.

Yours faithfully,

A handwritten signature in blue ink, appearing to be 'M. Jarraud', is written over a large, stylized blue 'X' mark.

(M. Jarraud)
Secretary-General

WORLD METEOROLOGICAL ORGANIZATION
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OBS/WIS/DRMM/AvXML, ANNEX 1

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OBS/WIS/DRMM/AvXML, ANNEX 2

TERMS OF REFERENCE FOR THE TASK TEAM ON AVIATION XML

- (a) To define the weather and climate information that must be represented in the aviation XML standard;
- (b) To identify the key characteristics required of the aviation weather XML standard to allow consistency with the emerging WMO data model and existing examples of best practice e.g. EUROCONTROL WXCM, and that will allow consistent evolution alongside other WMO data representations to avoid duplication of effort and inconsistencies;
- (c) To identify how the aviation weather XML standard can be maintained over a 50 year lifetime (METAR has been used since 1968) in an environment where it is used within embedded avionics;
- (d) To create XML representations of information to support Amendments 76 and 77 to WMO-No. 49, Volume 2 (Annex 3 to the Convention on International Civil Aviation);
- (e) To create a final standard in line with ICAO requirements that takes account of the lessons learned during testing;
- (f) To set up mechanisms for the creation, operation and maintenance of any catalogues, registries or similar that are required to support the aviation weather XML standard;
- (g) To create and provide the necessary regulatory and supporting materials for the aviation weather XML standard to be implemented;
- (h) To define and maintain the WMO Logical Data Model ("METCE");
- (i) To support CAeM in the creation and delivery of an implementation plan to develop the capacity of WMO Members to use the XML representation of aviation information;
- (j) To coordinate activities with the CAeM Expert Team on Information and Services for Aviation.

This work to develop the additional representations to support Amendment 77 is expected to take three years, with two meetings each year: an editing meeting with a limited number of participants and a full meeting together with telephone conferences for development. Each member of the team will be expected to contribute about two months of work to the development each year. Further, additional resources will be needed to deliver the implementation plan.
