



International Civil Aviation Organization

**EIGHTEENTH MEETING OF THE METEOROLOGY  
SUB-GROUP (MET SG/18) OF APANPIRG**

ICAO Regional Sub-Office, Beijing, China  
18 – 21 August 2014

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**Agenda Item 7.5: Research, development and implementation issues in the MET field**

**7.5 Data Exchange**

**STATUS AND PLANS FOR IWXXM IN AUSTRALIA**

(Presented by Australia)

**SUMMARY**

This paper provides a brief update on the status and plans for the support of the ICAO logical data model, known as the ICAO Meteorological Information Exchange Model (IWXXM), and the reception and distribution of meteorological products in IWXXM format in Australia.

**1. Introduction**

1.1 Effective with Amendment 76 to ICAO Annex 3 – *Meteorological Service for International Air Navigation* (applicability Nov. 2013), exchange of METAR, SPECI, TAF and SIGMET may be done in digital form under a bilateral agreement between States in a position to do so. Amendment 77 will make this a recommendation and will include additional message types such as VAA and TCA. It is anticipated that this will become a requirement at Amendment 78 to Annex 3.

1.2 The World Meteorological Organization formed a Task Team on Aviation XML (TT-AvXML) to identify the meteorological information that WMO must represent in the aviation XML standard in response to requirements from ICAO. The result was the development of IWXXM.

1.3 Details of IWXXM are included in the *Manual on the Digital Exchange of Aeronautical Meteorological Information* (ICAO Doc 10003).

**2. Discussion**

2.1 Airservices Australia is commencing a two year research project in the latter part of 2014 to develop the IWXXM data model for Australia. The objectives for the project are as follows:

- a) develop the IWXXM data model for Australia;
- b) determine the changes that the Bureau of Meteorology and Airservices Australia have to make to systems, people and processes to accommodate the IWXXM model in future;
- c) Identify how to handle Australian specific products and differences to ICAO Annex 3;
- d) Test the distribution of products with local users and RODBs; and
- e) Determine the scope and user requirements for an operational project to implement IWXXM in Airservices.

2.2 The research project will also include an IWXXM training course to enhance the in-house knowledge on the new data model.

2.3 Further details will be provided as the project develops.

### **3. Action by the Meeting**

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

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