



International Civil Aviation Organization

**FIFTEENTH MEETING OF THE ASIA/PACIFIC METEOROLOGICAL  
INFORMATION EXCHANGE WORKING GROUP  
(MET/IE WG/15)**

Bangkok, Thailand, 20 - 22 March 2017

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**Agenda Item 4      Meteorological information exchange in digital form**

**PLANS FOR IWXXM IN AUSTRALIA**  
(Presented by Australia)

**SUMMARY**

This paper provides a brief update on the status and plans for the support of ICAO Meteorological Information Exchange Model (IWXXM) format in Australia.

**1. INTRODUCTION**

1.1 Amendment 77 to Annex 3 recommends the international exchange of XML formatted METAR/SPECI, TAF, AIRMET, SIGMET, VAA and TCA. The planned Amendment 78 to Annex 3 (November 2018) is expected to make this a standard from November 2020.

1.2 At the first meeting of ICAO METP Working Group on Meteorological Information Exchange (WG-MIE), XML/GML representations of AIRMET, Volcanic Ash and Tropical Cyclone Advisories were proposed to be introduced in IWXXM V2. It was also decided that IWXXM messages should not be translated back to TAC messages and distributed; the respective TAC messages should continue to be distributed in parallel.

**2. DISCUSSION**

2.1 Based on guidelines from ICAO METP Working Group, changes required by Australia RODB to support the introduction of IWXXM are:

- Enable international exchange of IWXXM reports between the Bureau of Meteorology and connected National OPMET/ROBEX Centres;
- Ability to generate IWXXM bulletins;
- Enable FTBP on AMHS connections to Singapore and Fiji; and
- Exchange IWXXM bulletins with connected ROBEX partners (RODB Singapore and Fiji initially, followed by other states upon connections being upgraded to AMHS (Basic + FTBP)).

2.2 The diagrams in Attachment A provide detail on proposed system changes for the support of IWXXM format in Australia.

2.3 The Bureau of Meteorology (BOM) has current capability to generate SIGMET in IWXXM v1.1 format and has plans to commence trial generation of AIRMET, SIGMET, Volcanic

Ash Advisories and Tropical Cyclone Advisories in IWXXM v2.x format from mid-2017. The BOM is also developing plans for operational generation of both these products and the remaining IWXXM products. In all cases these are being generated in parallel to TAC, rather than translated from TAC.

2.4           The BoM and MetService New Zealand are currently coordinating plans for the exchange of IWXXM over non-aviation networks to test generation and ingestion of each other's products.

2.5           The solution for acceptance and storage of IWXXM reports and generation of IWXXM bulletins is still to be determined, as is the timeframe for implementation.

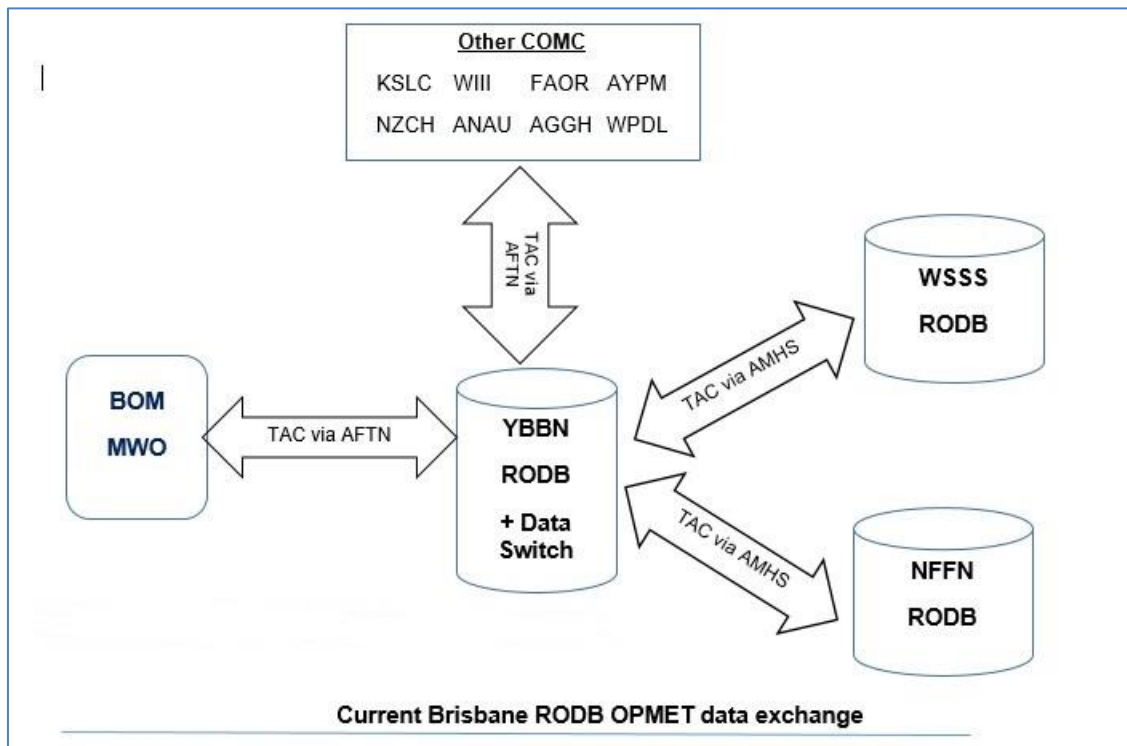
2.6           Initially, responses to requests for IWXXM data (RQX) would be manually generated. This may be reviewed once the regional IWXXM architecture is fully planned and agreed.

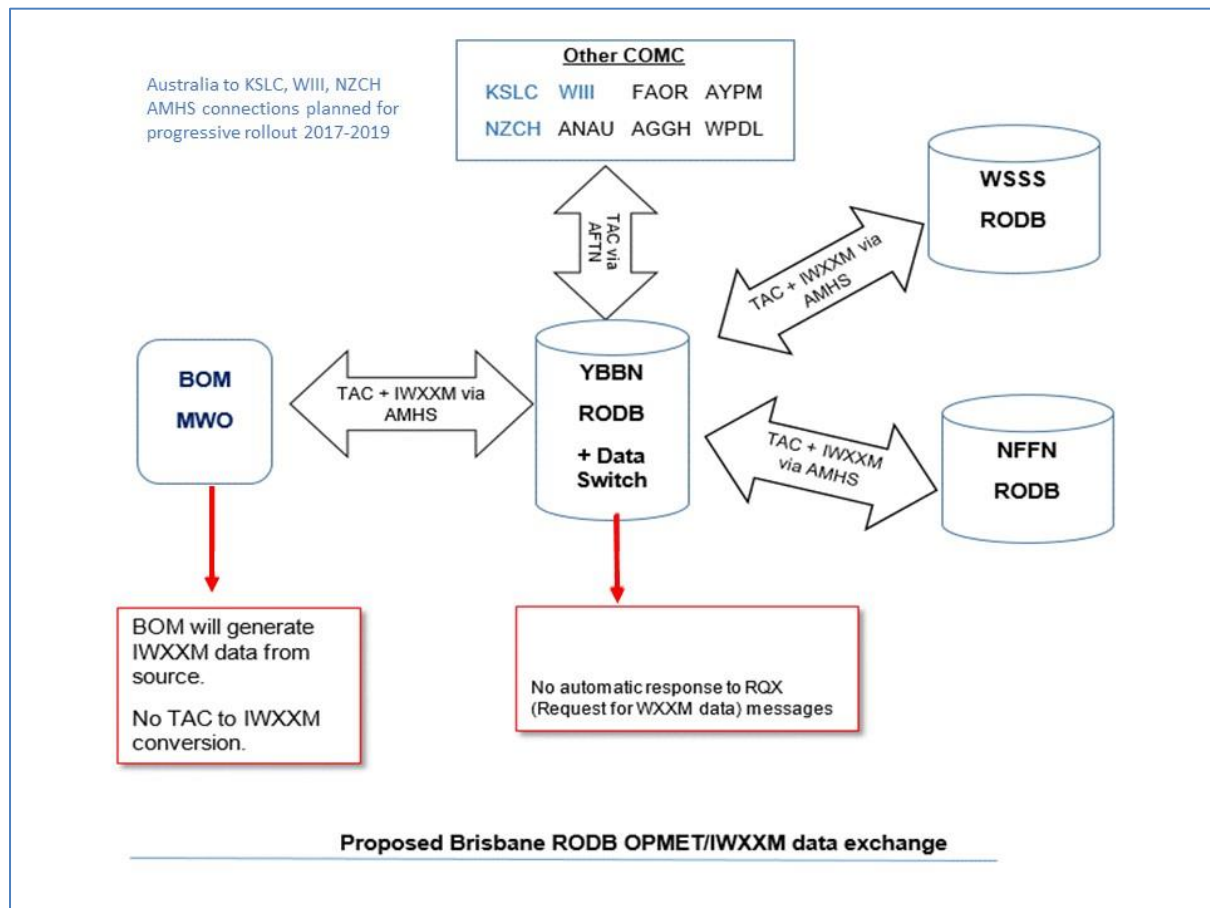
### **3.       ACTION REQUIRED BY THE MEETING**

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

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**Attachment A:** Current and planned capability within Australia





Note: It's not yet clear when other ROBEX Centres / COMCs will have the ability to generate IWXXM and distribute over AMHS.