

WORLD WEATHER WATCH
COMMISSION FOR BASIC SYSTEMS



World Meteorological Organization
Working together in weather, climate and water

TT-AvXML

Hong Kong, 22-24 September 2015

TT-AvXML-4/D08 Rev 1

Submitted by: Secretariat
11 Sept 2015

ICAO WG MIE

INTRODUCTION






This document summarizes the initial response of the ICAO Met Panel to the issues raised by TT-AvXML in March 2015. It also summarizes the terms of reference, work plan and action list from the ICAO WG MIE that was formed by the Met Panel to address issues with the introduction of weather information into the SWIM (System-Wide Information System).

INITIAL RESPONSE TO KEY ISSUES

Issue type	Team responsible
Implementation and migration	WG MIE (a new Met Panel Working Group on Meteorological Information Exchange)
Application of business rules	TT-AvXML to decide on method appropriate for IWXXM. (Note: at the ATIEC 2015 conference, it was reported that other domains were starting to use SVBR [Semantics of Business Vocabulary and Rules] to describe business rules and automatically generate schematron or other expressions).
Data modelling	Although the specifications of flight information regions, etc, are cross-cutting, TT-AvXML may wish to reduce the amount of this additional information within the weather related reports.
Exchange mechanisms using AMHS	WG MIE will be responsible for this.

ANWP Job-card

Title		Inclusion of aeronautical meteorological information in the SWIM-enabled environment and further development of the SWIM concept relating to meteorology		Reference:	MEPT.004.01	
Source		MET Divisional Meeting 2014 (Recommendations 2/2, 3/2 and 3/3)				
Problem Statement		Aeronautical meteorological information needs to be integrated into the SWIM-enabled environment which introduces unique issues relating to governance and data management.				
Specific Details (including impact statements)		<p>It was recommended by the MET Divisional Meeting (Recommendations 2/2, 3/2 and 3/3) that an appropriate ICAO expert group, in close coordination with WMO, develop provisions to enable the inclusion of aeronautical information in the future system-wide information management (SWIM) environment consistent with the Doc 9750, <i>Global Air Navigation Plan</i>. Further principles were also identified to guide the development of the SWIM concept relating to meteorology as provided in Appendix B of Agenda Item 3 of the Meteorology Divisional Meeting 2014 (Doc 10047). The transition from the Internet-based SADIS/WIFS system is an integral part of these considerations as are the intermediate steps towards full SWIM by making the Annex 3 products IWXXM-compliant.</p> <p>This will involve the resolution of institutional issues that solely relate to the management and use of aeronautical meteorological information and the necessary links between information supporting other domains in the aviation field and in meteorology supported by the World Meteorological Organization.</p> <p>Further development should take into consideration the main legacy tasks from the meteorological aeronautical requirements and information exchange project team (MARIE-PT), Satellite Distribution System for Information Relating to Air Navigation Operations Group (SADISOPSG) and the World Area Forecast System Operations Group (WAFSOPSG) that relate to information exchange.</p>				
Expected Benefit		The full integration of aeronautical meteorological information into the SWIM environment will enable the full benefits to be derived relating to safety and efficiency.				
Reference Documents		ICAO Annex 3 - <i>Meteorological Service for International Air Navigation</i> ICAO Doc 8896 - <i>Manual of Aeronautical Meteorological Practice</i> ICAO Doc 9750 - <i>Global Air Navigation Plan</i> ICAO Doc 10003 - <i>Manual on the Digital Exchange of Aeronautical Meteorological Information</i> ICAO Doc 10045 - <i>Report of the Meteorology Divisional Meeting 2014</i>				Attachments
Primary Expert Group:		METP				
WPE No.	Document affected	Description of Amendment proposal or Action	Supporting Expert Group	Expected dates:		
				Expert Group	Effective	Applicability
	Annex 3	Standards for IWXXM compliant METAR, SPECI, TAF and SIGMET exchange		Sep 2016	Jul 2018	Nov 2018
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	Annex 3, PANS-MET	Amendment to facilitate the introduction of the meteorological component of SWIM.	IMP	Sep 2016	Jul 2018	Nov 2018
	Docs 8896, 10003.	Update related guidance material to support the implementation of Annex 3 Amendments.		Sep 2016	Jul 2018	Nov 2018
Initial Issue Date: 17 June 2015		Date approved by ANC: 17 June 2015		Session/Meeting: 199-9		

Action Log						
Reference	Action Item	Officer Responsible	Target Date	Status	Comments	Revised Date
2015/06/04 No. 01	Terms of Reference. Review the ToR (and related parts of the Work Plan) to reflect the need to look at digital exchange of MET information leading up to SWIM (rather than 'before') and after implementation of SWIM.	D. Hart	Nov 2015		An update will be requested at the next WebEx	
2015/06/04 No. 03	Performance Measures. Review the Performance Measures within the Work Plan.	D. Hart	Nov 2015		An update will be requested during the next WebEx.	
2015/06/04 No. 04	ConOps for OPMET using IWXXM. All WG-MIE to review the document ' <i>Concept of Operations for the Transition of OPMET Data Exchange using IWXXM</i> '.	P. Simon, S. Dingle	Nov 2015		Patrick and Stuart to work on global adaption of ConOps and provide the group with a draft a week before the September WebEx.	
2015/06/04 No. 05	XML/GML Schema. Provide the WMO TT-AvXML with the requirements for XML/GML schema for other MET products.	N. Halsey	Aug 2015		Neil will attend the WMO TT-AvXML meeting in Hong Kong in September.	Sep 2015
2015/07/15 No. 01	AMHS Testing. Rick Heuwinkel will coordinate as necessary to establish a smaller technically focused ad hoc group with the necessary resources and expertise to develop an AMHS test plan.	R. Heuwinkel	21 Oct 2015		Draft IWXXM Test Plan was sent to Bill/Sue. Updated version to be sent to group by 26 August for comment. Final draft to be available prior to September WebEx. Further discussion to be held during the CP and METP meetings.	
2015/08/19 No. 01	ConOps Examples. Larry to provide examples of other ConOps to Stuart and Patrick.	L. Burch	28 Aug 2015			
2015/08/19 No. 02	WG-MIE Meeting in November. Sue & Neil to prepare a letter announcing the meeting in Montreal from 16-20 November 2015, along with a draft agenda, to be sent to WG-MIE members	N. Halsey S. O'Rourke	28 Aug 2015			

Status Key:

Complete



In progress



Pending



Overdue