

International Civil Aviation Organization

ICAO

WORKING PAPER

Nineteenth Meeting of the Meteorological Information Exchange Working Group (MET/IE WG/19)

Virtual meeting, 22 – 24 March 2021

Agenda Item 4: Meteorological information exchange in digital form**ONLINE REGISTER OF IWXXM EXCHANGE STATUS**

(Presented by Australia and Hong Kong, China)

SUMMARY

This paper presents the latest update on the development of an online register of current IWXXM exchange status, and invites the States to provide updates on their implementation status of IWXXM exchange in the online register.

1. INTRODUCTION

1.1 Digital exchange of METAR/SPECI, TAF, SIGMET, AIRMET, Volcanic Ash Advisory, Tropical Cyclone Advisory and Space Weather Advisory, in IWXXM GML form has become an Annex 3 standard since 5 November 2020. Given IWXXM exchange over the Aeronautical Fixed Service (AFS) requires AMHS with FTBP enabled connections and this only having been implemented partially across the region, States need to share their unique address for receiving IWXXM messages and information on the capabilities for transmitting IWXXM messages.

2. DISCUSSION

2.1 MET/IE WG/18 meeting considered the possibility to further update the ROBEX Handbook to facilitate the Regional exchange of OPMET in IWXXM form. The development of new IWXXM-related ROBEX information would also need to be flexible to reflect the changing requirements of States, especially during the transition to Region-wide implementation of IWXXM exchange. The meeting agreed to the following action item:

MET/IE WG/18 Action Item 14: ROBEX Handbook updates – IWXXM-related data

Investigate the development of an online repository for ROBEX data in which States would share and maintain up to date information on the IWXXM-capabilities of the ROBEX scheme and the AMHS addresses to support the required dissemination of IWXXM messages

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2.2 MET SG/24 meeting recognized that, at a Regional level, such information would need relatively frequent updates to reflect the evolving status of States and the meeting considered that the current process for annual updates to the ROBEX Handbook would not be sufficient. The proposal on the development of an online register of the status of IWXXM exchange in the APAC Region was presented in [MET SG/24 – WP25](#) together with a web link to a trial version, and the meeting noted that the proposal would provide a suitable, alternative solution during the transition to IWXXM exchange. MET SG/24 meeting adopted the following Conclusion:

Conclusion MET SG/24-12: <i>Development of Online Register of the status of IWXXM Exchange</i>	
What: That, the MET SG supports the development of an online register of the status of IWXXM exchange in the APAC Region to collate and maintain reliable information about implementation status of AMHS and FTBP between the annual ROBEX Handbook update, and to facilitates the States to identify the possible alternate dissemination paths for IWXXM exchange so that ROCs could distribute the IWXXM to other capable ROCs in the APAC region as far as possible.	
Why: ROCs need a channel to share timely updates of their status of implementation of IWXXM exchange, including their IWXXM-capable AMHS addresses and readiness to receive IWXXM, supported file size, AMHS status and the status in transmitting NOC's IWXXM report.	
Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Ops/Technical	
Follow-up: <input checked="" type="checkbox"/> Required from States	
When: As soon as practicable	Status: Adopted by Subgroup
Who: <input checked="" type="checkbox"/> Sub groups <input checked="" type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Other: MET/IE WG	

2.3 CNS SG/24 meeting noted the above outcome of MET SG/24 meeting via [CNS SG/24 – IP25](#) presented by Australia, Hong Kong China and the Secretariat. The paper also invited the meeting to request the States to urgently complete the implementation of AMHS with FTBP and IHE for IWXXM exchange. The meeting noted that a majority of APAC States/Administrations had not yet reported full implementation of IWXXM format, and requested MET/IE WG to work collaboratively with ACSICG for a way forward in APAC region (CNS SG/24 ACTION ITEM 24-3).

2.4 Comments from Regional OPMET Centres (ROCs) on the online register were also sought during an informal web-meeting among ROCs to discuss an APAC Regional strategy for supporting the exchange of meteorological information in IWXXM held on 25 November 2020, and the online register was then revised based on comments received.

2.5 The online register developed allows ROCs to share timely updates of the implementation status of IWXXM exchange, including their AMHS addresses, readiness to receive IWXXM, supported AMHS capability and the status in disseminating IWXXM reports to other ROCs or National OPMET centres (NOCs) (Figure 1). The online register will help IWXXM originating ROCs determine their addressing requirements to ensure IWXXM is made available to all States and users who are ready.

2.6 The online register was recently enhanced to reflect the availability of the IWXXM generated under NOCs or the associated MET service providers and the readiness of NOCs to receive IWXXM. It indicated that some States are ready for generating IWXXM MET reports, but not able to exchange them internationally as AMHS with FTPB and IHE is not yet implemented.

2.7 The link to the online register is available at: [Link to IWXXM exchange register](#). It is a view-only web link and could be shared via APAC website or by other means to allow States to check the updated information in the register more conveniently.

2.8 Considering that the provision of timely updates to the register to facilitate the Region-wide implementation of IWXXM exchange requires the attention of States including both MET and CNS communities, and noting the Conclusion MET SG/24-12 developed in the previous MET SG meeting, the following Draft Conclusion is recommended for consideration by MET SG/25:

Draft Conclusion MET SG/25/xx: Updating Online Register of IWXXM Exchange Status


That, the MET SG requests States to provide timely updates to the online register regarding the latest status of AMHS capability for IWXXM exchange among ROCs and NOCs and availability of IWXXM MET reports to facilitates the Region-wide implementation of IWXXM exchange.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper, in particular the updated online register mentioned in paragraph 2.5 and 2.6;
- b) consider the Draft Conclusion to MET SG in paragraph 2.8 and request States to provide updates on the implementation status of IWXXM exchange in the online register
(contact: Peter Dunda (pdunda@icao.int), Marco Kok (mhkok@hko.gov.hk) or Pierre Kemmers (pierre.kemmers@AirservicesAustralia.com));
- c) provide suggestions or comments to enhance the online register, if any;
- d) discuss any relevant matter as appropriate.

Attachment

Online Register of APAC IWXXM Exchange Status													
Updated: 2 March 2021													
ROC	ROC ready to receive IWXXM	ROC address to receive IWXXM	AMHS message size limit	AMHS supporting FTBP+IHE*	Disseminate IWXXM to ROCs	Disseminate IWXXM to NOCs	NOC		IWXXM generated	NOC ready to receive IWXXM	NOC address to receive IWXXM	Remarks	
Bangkok	VTBB	YES	VTBBYPYL	6 KB	YES	VHHH, WSSS, YBBB	YES	Bangkok	VTBB	YES	YES	VTBBYMYX	
								Phnom Penh	VDPP		NO		
								Vientiane	VLVT		NO		
								Ha Noi	VVNB	YES	NO		translation service from VTBB
								Yangon	VYYY		NO		
Beijing	ZBBB	TESTING	ZBBBYPYL	4 MB	YES			Beijing	ZBBB	YES			
								Ulaanbaatar	ZMUB				
Brisbane	YBBN	YES	YBBBYPYL	4 MB	YES	NZKL, VHHH, VTBB, WSSS	No recipients ready	Brisbane	YBBN	YES			
								Port Moresby	AYPY	PARTIAL	NO		translation service from NZKL
								Nauru	ANYN	YES	NO		translation service from NZKL
								Honiara	AGGH	PARTIAL	NO		translation service from NZKL
								Dili	WPDL	NO	NO		
Colombo	VCCC	NO						Colombo	VCCC				
								Male	VRMM				
Delhi	VIDP	NO						Delhi	VIDP				
Kolkata	VECC	NO						Kolkata	VECC				
								Dhaka	VGZR				
								Paro	VQPR				
								Kathmandu	VNKT				
Mumbai	VABB	NO						Mumbai	VABB				
Hong Kong	VHHH	YES	VHHHYPYL	4 MB	YES	NZKL, VTBB, WSSS, YBBB	YES	Hong Kong	VHHH	YES			
								Taipei City	RCTP	YES	YES	RCAAIWXM	
								Manila	RPLL	YES	NO		translation service from VHHH
								Macao	VMMC	YES	NO		translation service from VHHH
Incheon	RKSI	NO					Incheon	RKSI	YES			available through Open-API	
Jakarta	WIII	NO					Jakarta	WIII	YES				
Karachi	OPKC	NO					Karachi	OPKC					
Kuala Lumpur	WMKK	YES	WMKKYMXM		YES	WSSS		Kuala Lumpur	WMKK	YES			
Nadi	NFFN	NO						Brunei	WBSB	NO			
								Nadi	NFFN	PARTIAL	NO		translation service from NZKL
								Cook Islands	NCRF	YES	NO		translation service from NZKL
								Tonga	NFTF	YES	NO		translation service from NZKL
								Tuvalu	NGFU	YES	NO		translation service from NZKL
								Kiribati	NGTA	YES	NO		translation service from NZKL
								Niue	NIUE	YES	NO		translation service from NZKL
								Samoa	NSFA	YES	NO		translation service from NZKL
								Vanuatu	NVVV	YES	NO		translation service from NZKL
								New Caledonia	NWWW	YES	NO		IWXXM to be sent to NZKL over GTS via Melbourne for onward distribution
								French Polynesia	NTAA	YES	NO		
								American Samoa	NSTU	May 2021 or later	NO		IWXXM by US NWS in the FT/SA/SPUS25 KBWC bulletins
								Singapore	WSSS	YES	WSSSYPYL	4 MB	YES
Tokyo	RJTD	April 2021	RJTDYZYA	2 MB	YES		Tokyo	RJTD	Around Summer 2021			TC Advisory in IWXXM available via TCAC Tokyo website	
Wellington	NZKL	YES	NZKLMYL	6 MB	YES	VHHH, VTBB, WSSS, YBBB	Wellington	NZKL	YES				

* AMHS profile for IWXXM exchange is specified in the Appendix A of "Guidelines for the Implementation of OPMET Data Exchange using IWXXM"
 For further information and update, please contact: Peter Dunda (pdunda@icao.int), Marco Kok (mhkok@hko.gov.hk) or Pierre Kemmers (pierre.kemmers@AirservicesAustralia.com)

Figure 1: The updated version of [online register](#) for IWXXM exchange over AMHS in APAC Region