



ICAO

International Civil Aviation Organization

WORKING PAPER

**Twenty-fifth Meeting of the Meteorology Sub-group
(MET SG/25)**

Online, 18 – 22 October 2021

Agenda Item 3: Planning and monitoring

ONLINE REGISTER OF APAC IWXXM EXCHANGE STATUS

(Presented by Australia and Hong Kong China)

SUMMARY

This paper presents the progress in the development of an online register of current IWXXM exchange status since MET SG/24, and encourages the States/Administrations 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.

1.2 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/Administrations need to share their unique address for receiving IWXXM messages and information on the capabilities for transmitting IWXXM messages.

1.3 MET SG/24 meeting recognized that, at a Regional level, such information would need relatively frequent updates to reflect the evolving status of States/Administrations 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: Development of Online Register of the status of IWXXM Exchange

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.

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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. DISCUSSIONDevelopment of the Online Register

2.1 The online register allows Regional OPMET Centres (ROCs) to share timely updates of the implementation status of IWXXM exchange, including their readiness to receive IWXXM, supported AMHS capability and the status in disseminating IWXXM reports to other ROCs or National OPMET centres (NOCs). It also allows ROCs to specify their AMHS addressing to ensure IWXXM reports could be disseminated to all States who are ready. The online register facilitates States/Administrations to identify the possible alternate dissemination paths for IWXXM exchange, when necessary, so that ROCs could distribute the IWXXM to other capable ROCs in the APAC region as far as possible.

2.2 Comments from 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 in November 2020 after MET SG/24, and the online register was then revised based on comments received.

2.3 The online register was also enhanced in March 2021 to allow the NOCs to reflect the status of IWXXM generation and the readiness of NOCs to receive IWXXM from ROC.

2.4 The web link to the online register is available at: [Link to IWXXM exchange register](#). It is recommended that this view-only web link could be shared through APAC eDocument website and/or included in ROBEX Handbook to allow States/Administrations to check the updated information in the register more conveniently.

Latest status of IWXXM exchange in the APAC Region

2.5 CNS SG/24 meeting held in November 2020 noted the outcome of MET SG/24 meeting mentioned in paragraph 1.3 above via [CNS SG/24 – IP25](#) presented by Australia, Hong Kong China and the Secretariat. The paper also invited the meeting to request the States/Administrations 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 exchange, and requested MET/IE WG to work collaboratively with ACSICG for a way forward in APAC region (CNS SG/24 ACTION ITEM 24-3).

2.6 **Attachment** shows the online register of IWXXM exchange status updated in October 2021, which includes recent status updates provided by China, Japan, Republic of Korea, New Zealand, Thailand, Singapore and the United States. With the joint effort by Nadi, Wellington and Brisbane ROCs to support the availability of IWXXM format OPMET from Pacific States, the translation and

dissemination of SIGMETs for the Port Moresby, Nauru, Solomon Islands and Nadi FIRs and also for Nadi TCAs went live on 30 June 2021.

2.7 The register also indicated that some States/Administrations had the capability to generate IWXXM MET reports, but still not able to disseminate them internationally as AMHS with FTPB and IHE is not yet implemented.

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/Administrations including both MET and CNS communities, and noting the Conclusion MET SG/24-12 approved in the previous MET SG meeting, the following Draft Conclusion was proposed in MET/IE WG/19 held in March 2021. MET/IE WG/19 supported the following Draft Conclusion for further consideration by MET SG/25:

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

What: That, the MET SG requests the States/Administrations 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.

Why: To inform users and Regional OPMET Bulletin Exchange Scheme participants of each States ability to generate and receive IWXXM over the required communication links.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper and the [updated online register](#);
- b) consider the Draft Conclusion to MET SG in paragraph 2.8 to request States/Administrations 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 comments to enhance the online register, if any;
- d) discuss any relevant matter as appropriate.

Attachment

Online Register of APAC IWXXM Exchange Status

Updated: 17 October 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	YES	VTBBYPYL	6 KB	YES	VHHH, WSSS, YBBB	YES	Bangkok	VTBB	YES	YES	VTBBMYX	
							Phnom Penh	VDPP		NO		
							Vientiane	VLVT		NO		
							Ha Noi	VVNB		NO		Translation service by VTBB
							Yangon	VYYY		NO		
Beijing	YES	ZBBBYPYL	4 MB	YES	Jan 2022		Beijing	ZBBB	YES			
							Ulaanbaatar	ZMUB	PARTIAL			
Brisbane	YES	YBBBYPYL	4 MB	YES	NZKL, VHHH, VTBB, WMKK, WSSS	No recipients ready	Brisbane	YBBN	YES			
							Port Moresby	AOPY	YES	NO		Translation service by NZKL
							Nauru	ANYN	YES	NO		Translation service by NZKL
							Honiara	AGGH	YES	NO		Translation service by NZKL
							Dili	WPDL	NO	NO		
Colombo	NO	VCCC					Colombo	VCCC				
							Male	VRMM				
Delhi	NO	VIDP					Delhi	VIDP				
Kolkata	NO	VECC					Kolkata	VECC				
							Dhaka	VGZR				
							Paro	VQPR				
							Kathmandu	VNKT				
Mumbai	NO	VABB					Mumbai	VABB				
Hong Kong	YES	VHHHYPYL	4 MB	YES	NZKL, VTBB, WMKK, WSSS, YBBB	YES	Hong Kong	VHHH	YES			
							Taipei City	RCTP	YES	YES	RCAAIWXM	
							Manila	RPLL	YES	NO		Translation service by VHHH
							Macao	VMMC	YES	NO		Translation service by VHHH
Incheon	NO	RKSI		Q4 2022			Incheon	RKSI	YES		Available through Open-API	
Jakarta	NO	WIII					Jakarta	WIII	YES			
Karachi	NO	OPKC					Karachi	OPKC				
Kuala Lumpur	YES	WMKKYMXM	4 MB	YES	WSSS		Kuala Lumpur	WMKK	YES			
							Brunei	WBSB	NO			
Nadi	NO	NFFN			NZKL, VHHH, VTBB, WSSS, YBBB		Nadi	NFFN	YES	NO		Translation service by NZKL
							Cook Islands	NCRG	YES	NO		Translation service by NZKL
							Tonga	NFTF	YES	NO		Translation service by NZKL
							Tuvalu	NGFU	YES	NO		Translation service by NZKL
							Kiribati	NGTA	YES	NO		Translation service by NZKL
							Niue	NIUE	YES	NO		Translation service by NZKL
							Samoa	NSFA	YES	NO		Translation service by NZKL
							Vanuatu	NVVV	YES	NO		Translation service by NZKL
							New Caledonia	NWWW	YES	NO		IWXXM to be sent to NZKL over GTS via Melbourne for onward distribution
							French Polynesia	NTAA	NO	NO		IWXXM by US NWS in the FT/SA/SPUS25 KBWC bulletins
American Samoa	NSTU	NO	NO									
Singapore	YES	WSSYPYL	4 MB	YES	VHHH, VTBB, WMKK, YBBB	---	Singapore	WSSS	YES			
Tokyo	TESTING	RJTDYZYA	2 MB	YES			Tokyo	RJTD	Q1 2022		TC Advisory in IWXXM available via TCAC Tokyo website	
Washington	TESTING (Nov 2021 - Feb 2022)	KWBCYZYZ	4 MB	YES			Washington	KWBC	Feb 2022		New RODB KWBC in Nov 2021. Open API will be available	
Wellington	YES	NZKLYMYL	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 (mkok@hko.gov.hk) or Pierre Kemmers (pierre.kemmers@airservicesaustralia.com)

Figure 1: The updated online register for IWXXM exchange over AMHS in the APAC Region