

*International Civil Aviation Organization*

ICAO

## WORKING PAPER

Asia and Pacific (APAC)  
Twenty-first Meeting of the Meteorological Information  
Exchange Working Group (MET/IE WG/21)

Bangkok, Thailand, 27 to 29 March 2023

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

(Presented by Australia and Hong Kong China)

**SUMMARY**

This paper presents updates on the implementation status of IWXXM exchange as provided in the Online Register of APAC IWXXM Exchange Status.

**1. INTRODUCTION**

1.1 The *Online Register of APAC IWXXM Exchange Status*<sup>1</sup> (IWXXM online register) was developed to allow 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). The link to the online register has been included in Section 2.4.4 in the 14th Edition of APAC ROBEX Handbook published in March 2022.

1.2 The online register could also keep the awareness of the MET and CNS communities regarding regional IWXXM implementation status at the same level. The Secretariat promulgated the online register in the Ninth Meeting of the Aeronautical Communication Services Implementation Coordination Group in April 2022 ([ACSICG/9 – IP/07](#)) to facilitate the discussion on AMHS readiness status for supporting IWXXM traffic in the APAC Region ([ACSICG/9 – WP/14](#)).

**2. DISCUSSION**

2.1 The IWXXM online register dated 1 March 2023 was given at APPENDIX. Major updates since MET/IE WG/20 held in March 2022 were as follows:

- NOC Phnom Penh generated IWXXM and is ready to receive IWXXM with address “VDPPYMYC”
- ROC Beijing has been disseminating IWXXM to RODBs Brisbane, Singapore and Tokyo in addition to ROC Hong Kong

<sup>1</sup> Link: <https://docs.google.com/spreadsheets/d/1WEcGfMRZq2dgHsfdpFhiefJEcA8OeMhfbCJHTqA7NX0/edit#gid=0>

- RODB Singapore has been disseminating IWXXM to ROC Beijing in addition to other ROCs
- RODB Tokyo has been disseminating IWXXM to ROCs Beijing and Wellington in addition to RODB Singapore
- ROC Washington plans to generate IWXXM beginning from June 2023

2.2 Currently, there are eight ROCs capable of routinely receiving and disseminating IWXXM messages in the APAC Region. On the other hand, a number of ROCs or NOCs of States/Administrations were not yet ready to receive IWXXM messages via AMHS. Some States/Administrations had indicated the capability to generate IWXXM MET reports, but were still not able to disseminate them internationally to ROCs as the necessary AMHS with FTPB<sup>2</sup> and IHE<sup>3</sup> for IWXXM exchange was not yet implemented at NOCs.

2.3 A new table has been added to the updated version of IWXXM online register to reflect the progress of inter-regional exchange of IWXXM OPMET data made by Inter-regional OPMET Gateways (IROGs). APAC IWXXM data set that IROG Singapore is receiving is being disseminated to the European Region (EUR) and the full EUR IWXXM data set is being disseminated by IROG London to APAC. The bandwidth between IROG Singapore and IROG London has been increased from 128 kbps to 2 Mbps. Backup procedures for the IWXXM exchange through the alternate path EGGG – LSSS (Geneve) – LIII (Rome) – VTBB (Bangkok) – WSSS have been established.

2.4 States/Administrations are encouraged to provide continual updates, if any, on the implementation status of IWXXM exchange in the online register for identifying new IWXXM exchange opportunities among States and promoting the Region-wide implementation of IWXXM exchange in APAC as far as possible.

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

3.1 The meeting is invited to:

- a) note the progress in IWXXM exchange achieved by States since the last meeting;
- b) provide updates, if any, on the IWXXM exchange implementation status in the online register;
- c) provide suggestions to further enhance the online register; and
- d) in view of the implementation gap identified in para. 2.2, consider if any further action is required to promote implementation readiness of AMHS with FTPB and IHE for supporting the IWXXM traffic in the APAC Region.

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<sup>2</sup> File Transfer Body Part

<sup>3</sup> Interpersonal Message (IPM) Heading Extensions

**APPENDIX – Updated online register for IWXXM exchange over AMHS in the APAC Region**

Online Register of APAC IWXXM Exchange Status

Updated: 15 March 2023



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	/C=XX/A=ICAO/ P=THAILAND/ O=VTBB/ OU1=VTBB/ CN=VTBBYPYL	6 KB	YES	VHHH, WSSS, YBBB, ZBBB	YES	Bangkok	VTBB	YES	YES	VTBBYMYX	
								Phnom Penh	VDPP	YES	YES	VDPPYMYC	
								Vientiane	VLVT		NO		
								Ha Noi	VVNB	YES	NO		Translation service by VTBB
								Yangon	VYYY		NO		
Beijing	ZBBB	YES	/C=XX/A=ICAO/ P=CHINA/ O=HQ/ OU1=ZBBB/ CN=ZBBBYPYL	4 MB	YES	RJTD, VHHH, WSSS, YBBB		Beijing	ZBBB	YES			
								Ulaanbaatar	ZMUB	PARTIAL			
Brisbane	YBBN	YES	/C=XX/A=ICAO/ P=AUSTRALIA/ O=YBBN/ OU1=YBBB/ CN=YBBBYPYL	4 MB	YES	NZKL, RJTD, VHHH, VTBB, WMKK, WSSS, ZBBB	No recipients ready	Brisbane	YBBN	YES			
								Port Moresby	AYPY	YES	NO		Translation service by NZKL
								Nauru	ANYN	YES	NO		Translation service by NZKL
								Honiara	AGGH	YES	NO		Translation service by NZKL
								Dili	WPDJ	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	/C=XX/A=ICAO/ P=HONGKONG/ O=HKGCAD/ OU1=VHHH/ CN=VHHHYPYL	4 MB	YES	NZKL, RJTD, VTBB, WMKK, WSSS, YBBB, ZBBB	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	RKSI	NO			Q4 2022		Incheon	RKSI	YES			Available through Open-API	
Jakarta	WIII	NO					Jakarta	WIII	YES				
Karachi	OPKC	NO					Karachi	OPKC					
Kuala Lumpur	WMKK	YES	/C=XX/A=ICAO/ P=MALAYSIA/ O=WM/ OU1=WMKK/ CN=WMKKYMXM	4 MB	YES	WSSS		Kuala Lumpur	WMKK	YES			
								Brunei	WBSB	NO			
Nadi	NFFN	NO				NZKL, VHHH, VTBB, WSSS, YBBB		Nadi	NFFN	YES	NO		Translation service by NZKL TCA in IWXXM available (TCAC Nadi)
								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		Translation service by NZKL
								French Polynesia	NTAA	YES	NO		Translation service by NZKL
American Samoa	NSTU	NO	NO			IWXXM by US NWS in the FT/SA/SPUS25 KBWC bulletins							
Singapore	WSSS	YES	/C=XX/A=ICAO/ P=SINGAPORE/ O=CAASG/ OU1=WSSS/ CN=WSSSYPYL	4 MB	YES	NZKL, RJTD, VHHH, VTBB, WMKK, YBBB, ZBBB	---	Singapore	WSSS	YES			
Tokyo	RJTD	YES	/C=XX/A=ICAO/ P=RJ/ O=AFTN/ OU1=RJTDZYA	2 MB	YES	NZKL, WSSS, ZBBB		Tokyo	RJTD	YES		TC Advisory in IWXXM available via <a href="#">TCAC Tokyo website</a>	
Washington	KWBC	NO	/C=XX/A=ICAO/ P=K/ O=AFTN/ OU1=KWBCZYZ	4 MB	YES			Washington	KWBC	June 2023		New RODB KWBC in Nov 2021. Open API will be available	
Wellington	NZKL	YES	/C=XX/A=ICAO/ P=NZ/ O=NZCH/ OU1=NZKL/ CN=NZKLYMYL	6 MB	YES	VHHH, VTBB, WSSS, YBBB		Wellington	NZKL	YES			

Inter-regional exchange	IROG in APAC	IROG address to receive IWXXM	IROG in another Region	IROG address to receive IWXXM	Disseminate IWXXM from APAC to another Region	Disseminate IWXXM from another Region to APAC	Remarks
APAC - EUR	Singapore	WSSS	London	EGGG	YES	YES	Bandwidth between the exchange services was increased to 2Mbps. Backup procedures for the alternate path EGGG – LSSS (Geneve) – LIII (Rome) – VTBB (Bangkok) – WSSS are in place.
APAC - NAM	Tokyo	RJTD	Washington	KWBC	NO	NO	Test of IWXXM exchange between IROG Tokyo and IROG Washington will be conducted in the near future.

\* AMHS profile for IWXXM exchange is specified in the Appendix A of "Guidelines for the Implementation of OPMET Data Exchange using IWXXM"

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