



ICAO

*International Civil Aviation Organization***WORKING PAPER****Twenty-fourth Meeting of the Meteorology Sub-group (MET SG/24) of the Asia and Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG)**

Web-conference, 17 – 20 June 2019

Agenda Item 2: Review outcomes from previous meetings**REVIEW OUTCOMES FROM THE IWXXM WEBINAR**

(Presented by the Chair or MET/IE WG and the Secretariat)

SUMMARY

This paper presents the outcomes from the ICAO APAC 2020 Webinar on the Implementation of the ICAO Meteorological Information Exchange Model (IWXXM) and invites the meeting to consider further actions, as necessary, to support the planning and implementation, by APAC States, of dissemination of meteorological information in IWXXM form.

1. INTRODUCTION

1.1 The ICAO Asia and Pacific (APAC) Office, hosted the *Webinar on the Implementation of the ICAO Meteorological Information Exchange Model (IWXXM)*, from 27 to 29 October 2020.

1.2 The webinar followed three previous, similar Regional events in Hong Kong, China (10 – 12 October 2017), Bangkok, Thailand (12 – 14 June 2019) and Nuku'alofa, Tonga (04 – 06 December 2019), and provided an additional opportunity for ICAO outreach to Asia Pacific (APAC) States on IWXXM planning and implementation.

1.3 This paper highlights the main outcomes and discussions from the Webinar, 27 to 29 October 2020, and invites the meeting to consider further actions, as necessary, to support the planning and implementation, by APAC States, of the dissemination of meteorological information in IWXXM form.

2. DISCUSSIONSummary of the Webinar

2.1 The objective of the Webinar was to increase participants' awareness and understanding of key IWXXM-related issues and, in turn, facilitate progress on the APAC Region's efforts in planning and implementation of the ICAO (Annex 3) provisions for dissemination of meteorological information in IWXXM form.

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2.2 One hundred and fifty (150) participants from twenty-eight (28) States and Special Administrative Regions and three (3) international bodies registered to participate in the Webinar.

2.3 Mr. Tim Hailes, National Manager Aviation Service Development, Australian Bureau of Meteorology, and Mr. Peter Dunda, Regional Officer, ICAO APAC Office, facilitated the Webinar. Mrs. Susan O'Rourke, National Manager, Aviation International Engagement, Australian Bureau of Meteorology, and Mr Jun Ryuzaki, Senior Coordinator for International Aeronautical Meteorology, Japan Meteorological Agency, assisted with facilitating the Webinar question and answer sessions.

2.4 The Webinar considered nineteen (19) presentations and one (1) information paper provided by the participating experts under the following six (6) agenda items:

Agenda Item 1: Status of IWXXM in APAC

Agenda Item 2: The role of IWXXM in the international air navigation system

Agenda Item 3: Development and governance of IWXXM

Agenda Item 4: Roles in the generation and distribution of MET information in IWXXM form

Agenda Item 5: Communication matters

Agenda Item 6: Implementation and Testing the exchange of MET information in IWXXM form

2.5 All documentation from the Webinar, including the invitation, agenda, programme, presentations and papers are available at the ICAO APAC Office website (www.icao.int/apac > Meetings > Meeting List – 2020 > IWXXM Webinar).

Key discussion points and outcomes

2.6 Following initial introductions and formalities, the Webinar reviewed the results of the recent IWXXM Survey. A copy of the presentation, *Status of IWXXM implementation in APAC*, is provided at the **Attachment 1** to this paper.

2.7 Although some States and Special Administrative Regions are making good progress, only half (or less) of APAC States have implemented or planned the implementation of the Air Traffic Services (ATS) Message Handling System (AMHS), plus File Transfer Body Part (FTBP), which is necessary to support the exchange of meteorological information in IWXXM form.

2.8 Similarly, only half (or less) of APAC States have implemented or planned the implementation of dissemination of METAR/SPECI and TAF in IWXXM form.

2.9 Of the States and Special Administrative Regions responsible for SIGMET and/or AIRMET information, more than half have implemented or planned the implementation of dissemination of SIGMET and/or AIRMET in IWXXM form.

2.10 All five (5) APAC States responsible for volcanic ash and/or tropical cyclone advisory information have planned the implementation of dissemination of the advisory information in IWXXM form.

2.11 In addition, APAC States have so far conducted only limited testing of IWXXM exchange and no testing of the international exchange of IWXXM data on the operational AMHS networks in the APAC Region.

2.12 The Webinar reviewed both the ICAO and World Meteorological Organization (WMO) governance of IWXXM and discussed how IWXXM was enabling capability for the Global Air Navigation Plan (GANP) and, in particular, System Wide Information Management (SWIM).

2.13 The Webinar reminded participants that, in accordance with Amendment 78 to Annex 3, with applicability from 5 November 2020, States shall disseminate METAR/SPECI, TAF, SIGMET, AIRMET and volcanic ash, tropical cyclone and space weather advisory information in IWXXM GML form. In addition, in accordance with ICAO Doc 10003 – *Manual on the Digital Exchange of Aeronautical Meteorological Information*, to meet the requirements of Amendment 79 to Annex 3, only Version 3 of IWXXM, or later, shall be exchanged on operational networks from 5 November 2020.

2.14 The Webinar reviewed the roles and responsibilities for both the regional and global exchange of IWXXM.

2.15 To support the exchange of operational meteorological information in IWXXM GML form, the Webinar reminded States of the need to implement the Air Traffic Services (ATS) Message Handling System (AMHS), plus File Transfer Body Part (FTBP) (APANPIRG Conclusion 28/16 refers).

2.16 The third day of the Webinar focused on implementation matters, including presentations from Europe and the United States, as well as the summary of capabilities at each APAC Regional OPMET Databank (RODB).

2.17 The Webinar recorded outcomes of discussion in the Q-and-A sessions following the presentations in each agenda item. A complete copy of the outcomes from the Q-and-A sessions is at the **Attachment 2** to this paper.

2.18 The Webinar identified a number of IWXXM-related issues requiring follow-up actions, including the following:

2.18.1 **MET/IE WG Chair** to request the ICAO Meteorology Panel Working Group on Meteorological Information Exchange (METP WG-MIE) to consider specifying the maximum processing time for the data translation centre function, to prevent delays in the availability of IWXXM when TAC to IWXXM translation is performed.

2.18.2 **MET/IE WG** to consider preparing the following additions to the ROBEX Handbook:

- a) All communications shall be routed by the most expeditious route available; which may differ from the standard or prescribed route
- b) Each ROCs AFTN address for supporting IWXXM exchange.
- c) IWXXM exchange shall differ from traditional OPMET exchange, whereby:
 - i. There is no distributing responsibility for originating stations and National OPMET Centres other than to get their products to their Regional OPMET Centre (ROC);
 - ii. Originating ROC distributes every type of IWXXM OPMET to all other ROCs in the APAC region;

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- iii. ROCs with Inter-regional OPMET Gateway (IROG) responsibilities ensure forwarding IWXXM messages to other regions, i.e., IROG Tokyo sending all APAC IWXXM to Washington WIFS and IROG Singapore sending all APAC IWXXM to London SADIS; and
- iv. ROCs will distribute received IWXXM messages to the NOC and users in their respective area of responsibility.

2.18.3 **MET/IE and MET/S Working Groups** to develop additional user education materials defining the impacts of TAC to IWXXM translation.

2.18.4 **ICAO Secretariat** to request States share up-to-date information on their operational units' AMHS (including FTBP) capabilities via the ATS Messaging Management Centre (AMC).

Survey of Webinar Participants

2.19 The facilitators conducted a short survey of participants at the end of the Webinar. Pending a complete analysis of survey results, a few initial, key statistics are as follows:

- Participants' primary area of expertise:
 - 18% communications
 - 48% meteorology
 - 13% both communications and meteorology
 - 21% other
- Participants' level of satisfaction with the Webinar:
 - 85% very satisfied or satisfied
- Participants level of satisfaction with the use of virtual meeting tools:
 - 96% very satisfied or satisfied

3. ACTION BY THE MEETING

3.1 This paper invites the meeting to review the outcomes from the ICAO APAC 2020 Webinar on the Implementation of the ICAO Meteorological Information Exchange Model (IWXXM) and consider further actions, as necessary, to support the planning and implementation, by APAC States, of dissemination of meteorological information in IWXXM form.



ICAO BANGKOK UNITING AVIATION

Status of IWXXM implementation in APAC

Peter Dunda

*Regional Officer, Aeronautical Meteorology
International Civil Aviation Organization*

Webinar on the implementation of the ICAO Meteorological
Information Exchange Model (IWXXM), 27 to 29 October 2020





2020 Survey IWXXM/Extended AMHS

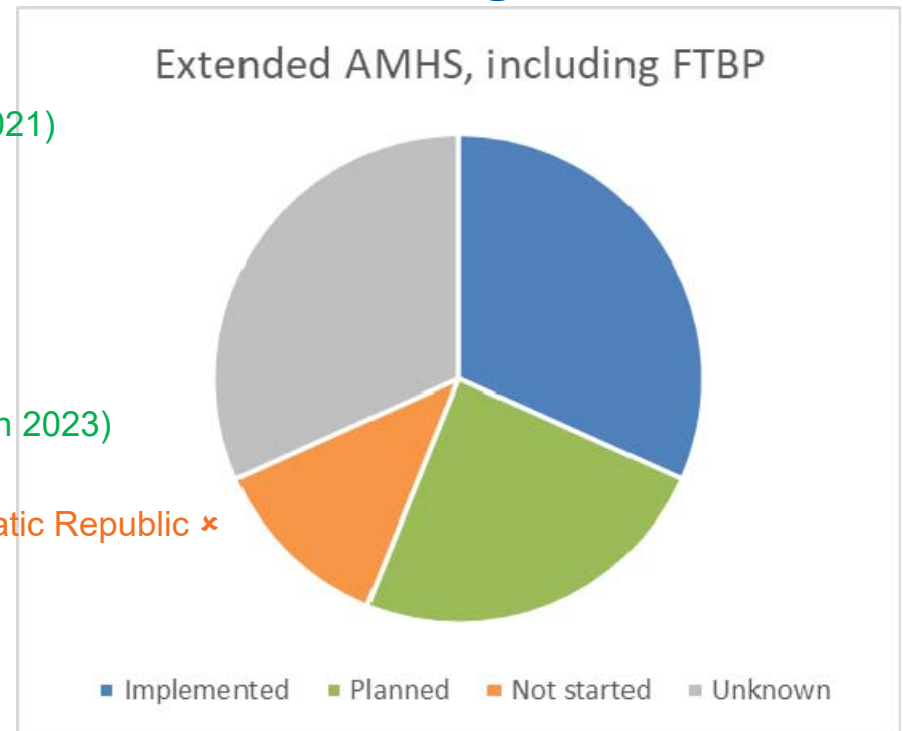
- | | | |
|------------------------------------|------------------------------------|---|
| Australia ✓ | Micronesia (Federated States of) ✓ | Afghanistan ✗ |
| Bangladesh ✓ | Mongolia ✓ | Brunei Darussalam ✗ |
| Bhutan ✓ | Myanmar ✓ | Democratic People's Republic of Korea ✗ |
| Cambodia ✓ | New Zealand ✓ | Kiribati ✗ |
| China ✓ | Pakistan ✓ | Marshall Islands ✗ |
| Hong Kong, China ✓ | Philippines ✓ | Nauru ✗ |
| Macao, China ✓ | Republic of Korea ✓ | Nepal ✗ |
| Cook Islands ✓ | Samoa ✓ | Palau ✗ |
| Fiji ✓ | Singapore ✓ | Papua New Guinea ✗ |
| India ✓ | Solomon Islands ✓ | Sri Lanka ✗ |
| Indonesia ✓ | Thailand ✓ | Timor Leste ✗ |
| Japan ✓ | Vanuatu ✓ | Tonga ✗ |
| Lao People's Democratic Republic ✓ | Viet Nam ✓ | Tuvalu ✗ |
| Malaysia ✓ | United Kingdom ✓ | |
| Maldives ✓ | United States ✓ | |



1.a. Implemented extended AMHS, including FTBP?

- Bangladesh ✓
- Bhutan ✓
- Cambodia ✓
- Hong Kong, China ✓
- Indonesia ✓
- Japan ✓
- Malaysia ✓
- Micronesia (Federated States of) ✓
- Myanmar ✓
- New Zealand ✓
- Philippines ✓
- Singapore ✓
- Thailand ✓
- Australia (Sep 2020)
- China (Oct 2020)
- Macao, China (Nov 2021)
- Fiji (Dec 2021)
- India (Apr 2021)
- Maldives (Oct 2021)
- Mongolia (Jan 2021)
- Pakistan (Dec 2020)
- Republic of Korea (Jun 2023)
- Viet Nam (Apr 2021)

- Lao People's Democratic Republic ✗
- Cook Islands ✗
- Samoa ✗
- Solomon Islands ✗
- Vanuatu ✗



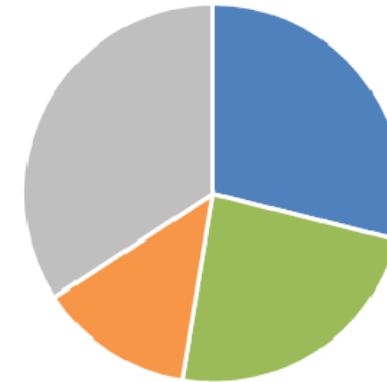


1.b. AMHS and FTBP – NOC to ROC?

- Bangladesh ✓
- Cambodia ✓
- Indonesia ✓
- Japan ✓
- Micronesia (Federated States of) ✓
- Myanmar ✓
- New Zealand ✓
- Philippines ✓
- Singapore ✓
- Solomon Islands ✓
- Thailand ✓
- Australia (Sep 2020)
- China (Oct 2020)
- Fiji (Dec 2021)

- India (Apr 2021)
- Macao, China (Nov 2021)
- Malaysia (Dec 2020)
- Maldives (Nov 2021)
- Republic of Korea (Jan 2023)
- Viet Nam (Apr 2021)
- Bhutan
- Cook Islands
- Lao People's Democratic Republic
- Mongolia
- Samoa

Extended AMHS, including FTBP
NOC to ROC



■ Established ■ Planned ■ Not started ■ Unknown



1.c. AMHS and FTBP – ROC to RODB?

- Singapore ✓
- Thailand ✓
- China (Oct 2020)
- Hong Kong, China (Oct 2020)
- Japan (Oct 2020)
- New Zealand (2021)
- Pakistan (Dec 2020)
- Australia
- Fiji
- India
- Indonesia
- Malaysia
- Republic of Korea
- Sri Lanka

Extended AMHS, including FTBP
ROC to RODB



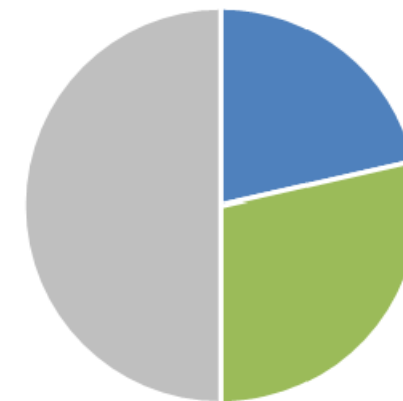
■ Established ■ Planned ■ Unknown



1.d. AMHS and FTBP – ROC to IROG?

- Japan ✓
- Singapore ✓
- Thailand ✓
- Australia (Oct 2020)
- China (Oct 2020)
- Hong Kong, China (Oct 2020)
- Pakistan (Dec 2020)
- Fiji
- India
- Indonesia
- Malaysia
- New Zealand
- Republic of Korea
- Sri Lanka

Extended AMHS, including FTBP
ROC to IROG



■ Established ■ Planned ■ Unknown



1.e. RODB – storage of IWXXM?

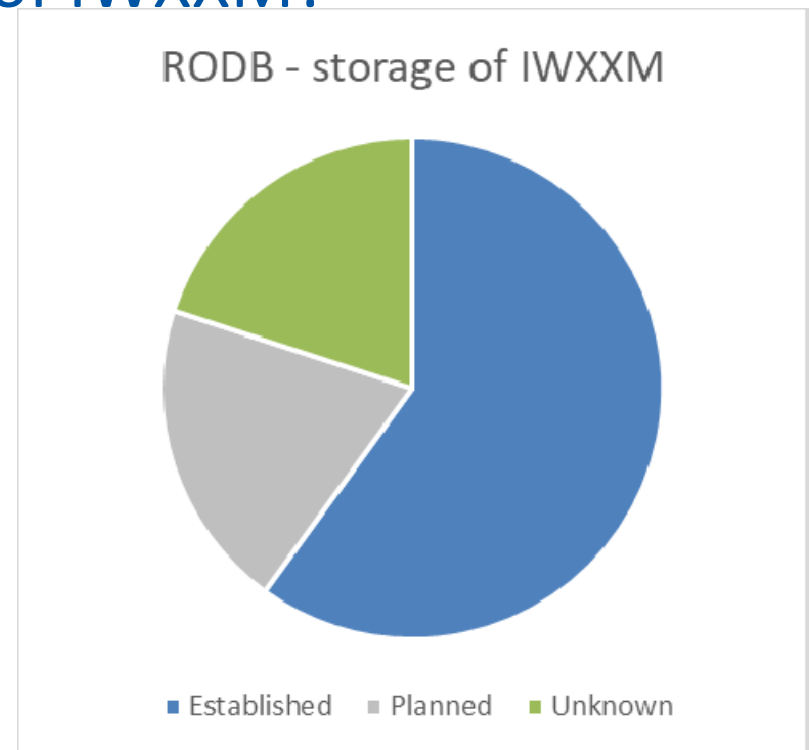
Japan ✓

Singapore ✓

Thailand ✓

Australia (Dec 2021)

Fiji





1.e. RODB – storage of IWXXM?

Thailand ✓

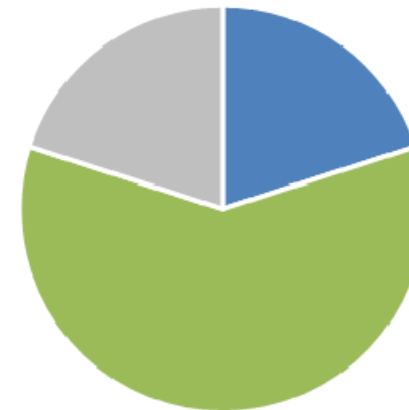
Australia (Dec 2021)

Japan (Mar 2021)

Singapore (Aug 2020)

Fiji

RODB - Request and reply
IWXXM



■ Established ■ Planned ■ Unknown

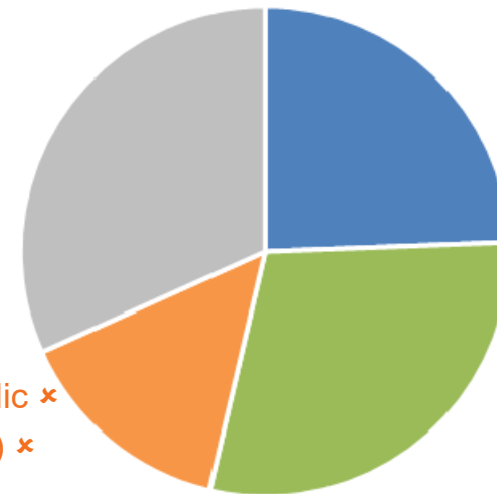


2.a. Implemented METAR/SPECI in IWXXM?

- Bangladesh ✓
- Cambodia ✓
- Hong Kong, China ✓
- Indonesia ✓
- Malaysia ✓
- Myanmar ✓
- New Zealand ✓
- Pakistan ✓
- Singapore ✓
- Thailand ✓
- Australia (Nov 2020)
- Bhutan (Jul 2021)
- China (Jan 2021)
- Fiji (Dec 2021)

- India (Apr 2021)
- Japan (Mar 2021)
- Macao, China (Nov 2021)
- Maldives (Sep 2021)
- Mongolia (Nov 2021)
- Philippines (May 2022)
- Republic of Korea (Nov 2020)
- Viet Nam (Jul 2021)
- Cook Islands ✗
- Lao People's Democratic Republic ✗
- Micronesia (Federated States of) ✗
- Samoa ✗
- Solomon Islands ✗
- Vanuatu ✗

Implemented METAR/SPECI in IWXXM



■ Implemented ■ Planned ■ Not started ■ Unknown

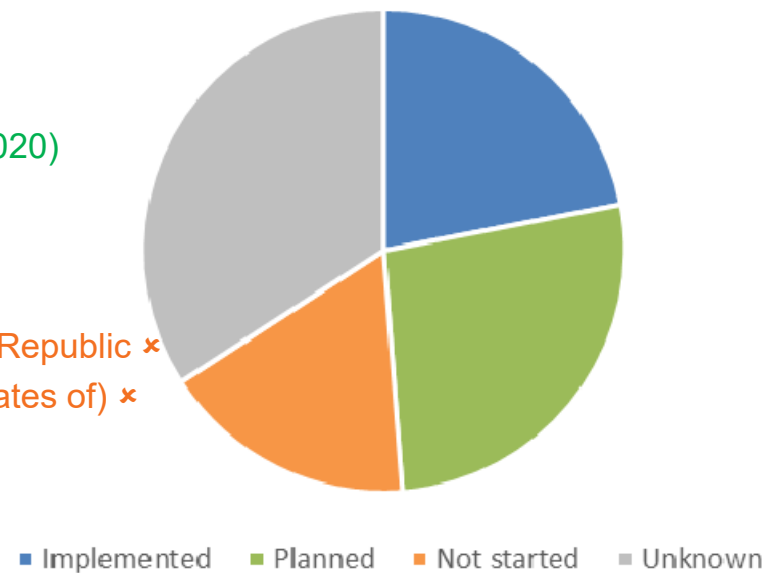


2.b. Implemented TAF in IWXXM?

- Bangladesh ✓
- Cambodia ✓
- Hong Kong, China ✓
- Indonesia ✓
- Myanmar ✓
- New Zealand ✓
- Pakistan ✓
- Singapore ✓
- Thailand ✓
- Australia (Nov 2020)
- China (Jan 2021)
- Fiji (Dec 2021)
- India (Apr 2021)
- Japan (Mar 2021)

- Macao, China (Nov 2021)
- Maldives (Sep 2021)
- Mongolia (Nov 2021)
- Philippines (May 2022)
- Republic of Korea (Nov 2020)
- Viet Nam (Jul 2021)
- Bhutan ✗
- Cook Islands ✗
- Lao People's Democratic Republic ✗
- Micronesia (Federated States of) ✗
- Samoa ✗
- Solomon Islands ✗
- Vanuatu ✗

Implemented TAF in IWXXM



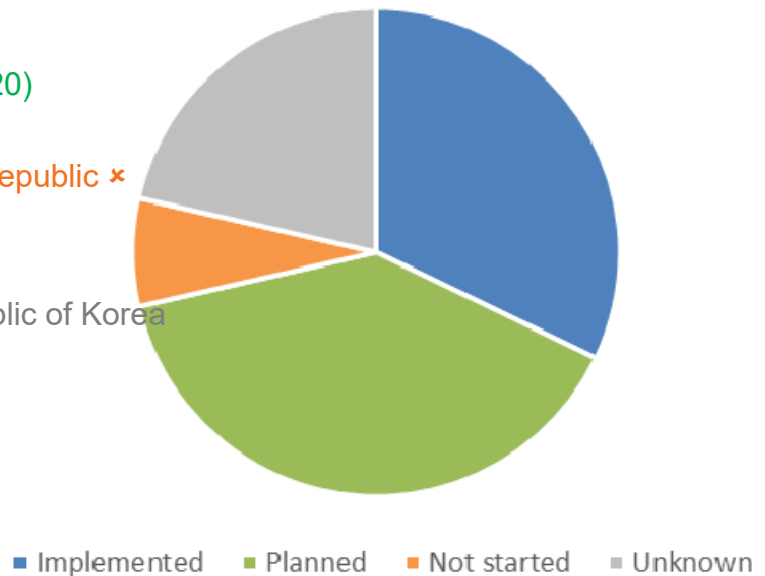


2.c. Implemented SIGMET in IWXXM?

- Bangladesh ✓
- Cambodia ✓
- Hong Kong, China ✓
- Indonesia ✓
- Malaysia ✓
- Myanmar ✓
- Pakistan ✓
- Singapore ✓
- Thailand ✓
- Australia (Nov 2020)
- China (Jan 2021)
- Fiji (Dec 2021)
- India (Apr 2021)
- Japan (Mar 2021)
- Maldives (Sep 2021)

- Mongolia (Nov 2022)
- New Zealand (Aug 2020)
- Philippines (May 2022)
- Republic of Korea (Nov 2020)
- Viet Nam (Oct 2021)
- Lao People's Democratic Republic ✗
- Solomon Islands ✗
- Afghanistan
- Democratic People's Republic of Korea
- Nauru
- Nepal
- Papua New Guinea
- Sri Lanka

Implemented SIGMET in IWXXM



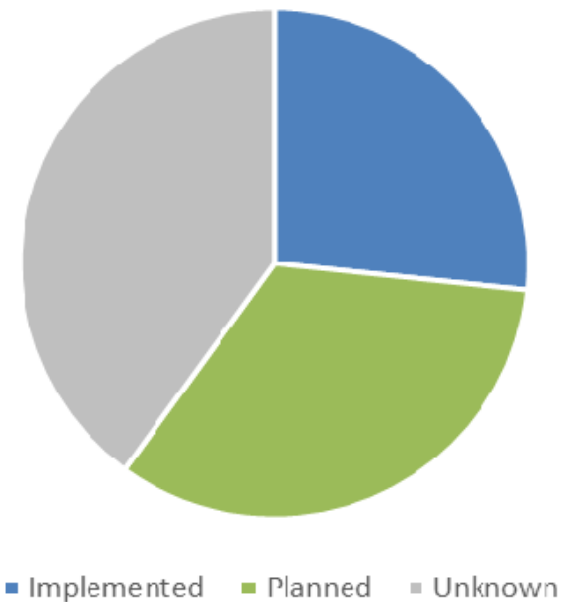


2.d. Implemented AIRMET in IWXXM?

- Cambodia ✓
- Malaysia ✓
- Myanmar ✓
- Pakistan ✓
- Australia (Nov 2020)
- China (Jan 2021)
- Fiji (Dec 2021)
- Mongolia (Nov 2023)
- Republic of Korea (Nov 2020)

- Afghanistan
- Democratic People's Republic of Korea
- Nauru
- Nepal
- Papua New Guinea
- Sri Lanka

Implemented AIRMET in IWXXM





2.e. Implemented VAA in IWXXM? 2.f. Implemented TCA in IWXXM?

VAA

Australia (Nov 2020)

Japan (Mar 2021)

New Zealand (Aug 2020)

TCA

Australia (Nov 2020)

Fiji (Dec 2021)

India (Apr 2021)

Japan (Nov 2020)

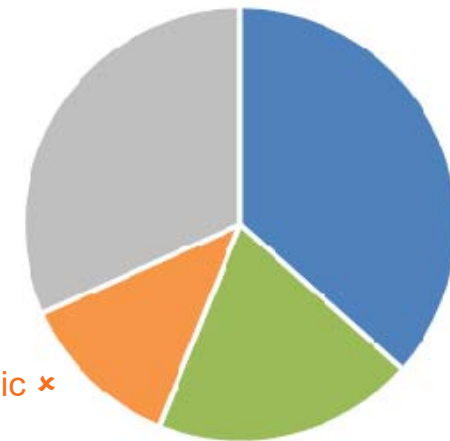


3. Implemented telecommunications for IWXXM?

- Bangladesh ✓
- Bhutan ✓
- Cambodia ✓
- India ✓
- Japan ✓
- Malaysia ✓
- Maldives ✓
- Micronesia (Federated States of) ✓
- Mongolia ✓
- Myanmar ✓
- New Zealand ✓
- Pakistan ✓
- Philippines ✓
- Singapore ✓

- Thailand ✓
- Australia (Nov 2020)
- China (Oct 2020)
- Fiji (Dec 2021)
- Hong Kong, China (Oct 2020)
- Indonesia (Mar 2021)
- Macao, China (Nov 2021)
- Republic of Korea (Jun 2023)
- Viet Nam (Apr 2021)
- Cook Islands ✗
- Lao People's Democratic Republic ✗
- Samoa ✗
- Solomon Islands ✗
- Vanuatu ✗

Implemented telecommunications for IWXXM



■ Implemented ■ Planned ■ Not started ■ Unknown

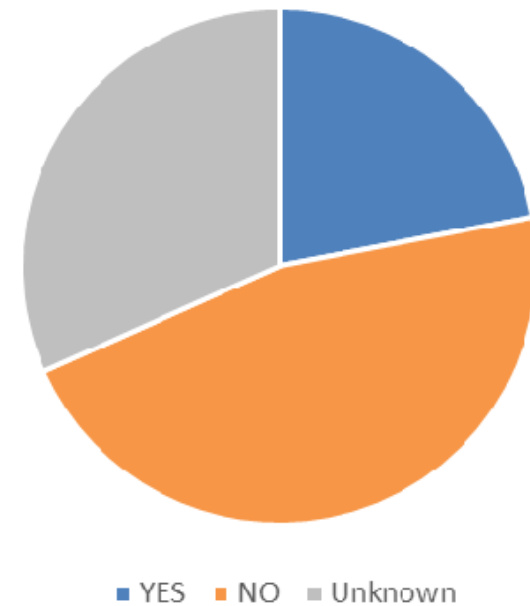


4. Data Translation Centre for TAC to IWXXM?

- Australia ✓
- Bangladesh ✓
- Cambodia ✓
- China ✓
- Hong Kong, China ✓
- India ✓
- Malaysia ✓
- Singapore ✓
- Thailand ✓
- Bhutan ✗
- Cook Islands ✗
- Fiji ✗
- Indonesia ✗
- Japan ✗

- Lao People's Democratic Republic ✗
- Macao, China ✗
- Maldives ✗
- Micronesia (Federated States of) ✗
- Mongolia ✗
- Myanmar ✗
- New Zealand ✗
- Pakistan ✗
- Philippines ✗
- Republic of Korea ✗
- Samoa ✗
- Solomon Islands ✗
- Vanuatu ✗
- Viet Nam ✗

Data Translation Centre





Conclusion

- Only half (or less) of APAC States have implemented (or planned) the extended AMHS, including FTBP, to support the international exchange of meteorological information in IWXXM form





Conclusion

- Only half (or less) of APAC States have implemented (or planned) the dissemination of METAR/SPECI and TAF in IWXXM form





Conclusion

- More than half of APAC States (that are required to) have implemented (or planned) the dissemination of SIGMET and/or AIRMET in IWXXM form
- All APAC States with VAACs/TCACs have planned the dissemination of VAA/TCA in IWXXM form



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Mexico City
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Lima
- ICAO Headquarters
Montréal
- Western and Central African (WACAF) Office
Dakar
- European and North Atlantic (EUR/NAT) Office
Paris
- Middle East (MID) Office
Cairo
- Eastern and Southern African (ESAF) Office
Nairobi
- Asia and Pacific (APAC) Sub-office
Beijing
- Asia and Pacific (APAC) Office
Bangkok

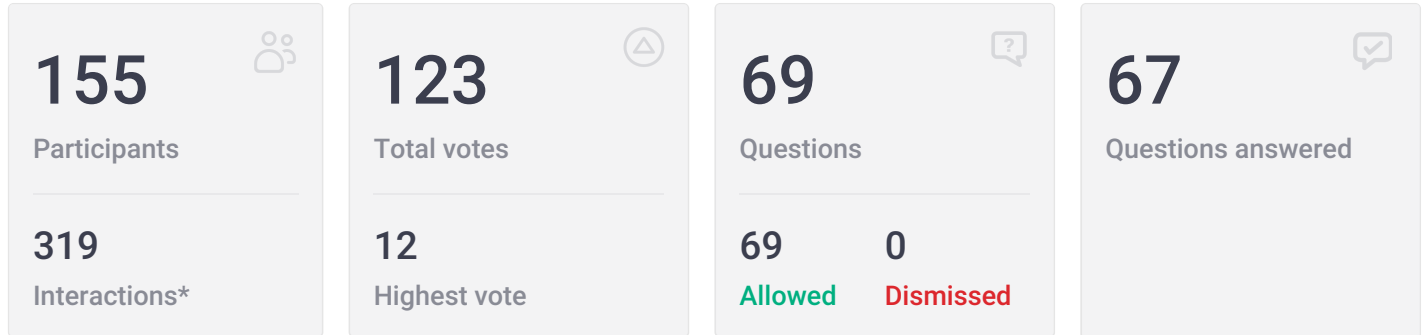


THANK YOU

 Q&A

Q&A Session

27 Oct 2020, 09:00 - 29 Oct 2020, 15:00



* Interactions include the total number of questions, votes, comments and answer ratings

69 Questions Allowed

12

VOTES

Chair - Tim Hailes • 27 Oct 2020 11:51 ★

Agenda Item 3/4/6: Translation Centres: Please comment to this question if you are planning to offer TAC to IWXXM Translation capability for other States?

5 Comments:

BL Choy, Hong Kong China • Allowed on 29 Oct 2020, 11:38 • Allowed

Hong Kong, China will be providing translation services for those connecting NOCs.

0 Upvotes | 0 Downvotes

Goh Wee Poh • Allowed on 29 Oct 2020, 11:39 • Allowed

ROC Singapore can consider translation service for centres within its area of responsibility.

0 Upvotes | 0 Downvotes

China- ZOU Juan • Allowed on 29 Oct 2020, 11:41 • Allowed

Beijing ROC (ZBBB, China) can provide TAC to IWXXM translation service for the upstream NOC (ZMUB, Mogonlia) if requested by ZMUB NOC and agreed by the corresponding two States. However, no formal contact or request has been originated yet.

0 Upvotes | 0 Downvotes

Paula Acethorp (CAA NZ) • Allowed on 27 Oct 2020, 11:56 • Allowed

New Zealand (Wellington ROC) is currently working through how it can provide translation services to Fiji (Nadi ROC) and therefore south Pacific States who require translation services. Discussions are underway but not yet finalised in how it will all work.

0 Upvotes | 0 Downvotes

Bono (PCCW) • Allowed on 28 Oct 2020, 15:39 • Allowed

PCCW Global has been developing IWXXM Translation and Exchange Services with one of the leading aeronautical application vendors. This service can serve as an alternative solution for ANSPs to fulfill ICAO Amendment 78 Annex 3.

The trial can be offered to interested parties.

0 Upvotes | 0 Downvotes

8
VOTES

Anonymous • 27 Oct 2020 11:18 • ✓ ANSWERED

Myanmar Met office not yet IWXXM format, how to proceed, we have different department civil aviation and met department who responsibility pls

2 Comments:

ICAO - Peter Dunda • Allowed on 27 Oct 2020, 11:38 • Allowed

The Webinar will specifically provide information on how to proceed with implementation of dissemination of MET information in IWXXM form. Regarding responsibility, Annex 3 [2.1.4] requires that each Contracting State shall designate the authority, hereinafter referred to as the meteorological authority (MA), to provide or to arrange for the provision of meteorological service for international air navigation on its behalf. Therefore, the (MA) has a clear role in ensuring the dissemination of MET information in IWXXM form.

0 Upvotes | 0 Downvotes

Sue ORourke (AUS) • Allowed on 27 Oct 2020, 12:59 • Allowed

You will also need to file a difference against the relevant Annex 3 standards via the Electronic Filing of Differences (EFOD) system. You will also need to provide an estimate of when you think you will be able to supply IWXXM.

0 Upvotes | 0 Downvotes

7
VOTES

David Otalifua Tapiel • 27 Oct 2020 13:14 • ✓ ANSWERED

What would happen to states such as some Pacific Islands Nations whom are yet to Implement IWXXM and how do we transmit Weather Messages?

4 Comments:

David Otalifua Tapiel • Allowed on 27 Oct 2020, 13:21 • Allowed

What will happen comes November 5th

1 Upvotes | 0 Downvotes

Paula Acethorp (CAA NZ) • Allowed on 27 Oct 2020, 13:26 • Allowed

Regarding the south Pacific specifically, the Pacific Island Aviation Weather Services Panel has a task team that is working on a plan for the ICAO-contracting Pacific Island States that require assistance in generating IWXXM format OPMET. It has been a slow process unfortunately (due to COVID-19), but it is hoped that an update will be provided to PIAWS Panel members soon.

1 Upvotes | 3 Downvotes

David Otalifua Tapiel • Allowed on 27 Oct 2020, 13:33 • Allowed

This is very clear and I do understand, thank you very much

0 Upvotes | 0 Downvotes

ICAO - Peter Dunda • Allowed on 27 Oct 2020, 13:38 • Allowed

States will be not compliant with ICAO Annex 3 SARPs (related to IWXXM). In such cases, the State/s should consider the obligation to file the difference with ICAO SARPs (i.e., via the EFOD system). Dissemination of MET information in TAC form will not change.

0 Upvotes | 0 Downvotes

6
VOTES

Yuzaimi (Malaysia) • 27 Oct 2020 13:08 • ✓ ANSWERED

During the validation of IWXXM data that we are received, we find some bugs in the data not meet the requirements of WMO code of IWXXM, to whom should we submit the bugs for further action and amend.

2 Comments:

BL Choy, Hong Kong China • Allowed on 27 Oct 2020, 13:18 • Allowed

Questions and suggestions can be sent to Google Group cbs-tt-avxml@wmo.int

0 Upvotes | 0 Downvotes

Yuzaimi (Malaysia) • Allowed on 27 Oct 2020, 13:30 • Allowed

During the testing IWXXM data validation we are received, the bugs we found on: 1. TREND incorrect wind data type, 2. Non-observable Cloud Type missing, 3. NCD coded as vertical visibility with nilReason, 4. Recent Weathe without RE.

0 Upvotes | 0 Downvotes

5
VOTES

Rasheed_Maldives Met • 27 Oct 2020 11:15 • ✓ ANSWERED

I would like to know the role of the MET in the implementation of telecommunication system or AMHS and thus to enable transmission of Met reports in IWXXM format.

3 Comments:

Pierre Kemmers • Allowed on 27 Oct 2020, 11:26 • Allowed

The MET group will need to upgrade their system to allow establishing the AMHS FTBP connection with the local COM Centre. Your local COM Centre should however be able to help you with requirements and expertise. See my answer to your other question as well

0 Upvotes | 0 Downvotes

Chair - Tim Hailes • Allowed on 27 Oct 2020, 11:34 • Allowed

Further to the response from Pierre, AMHS/FTBP is required for international OPMET distribution, however ICAO does not require AMHS/FTBP for exchange within the State. Alternate secure communication methods could also be considered for within State communications between the Met Service and COM Centre.

0 Upvotes | 0 Downvotes

Anonymous • Allowed on 27 Oct 2020, 11:36 • Allowed

It is always the best if COM center support FTBP first even if MET is not ready for IWXXM. It is because COM center can "relay" iwxxm messages to/from MET in other states.

1 Upvotes | 0 Downvotes

5
VOTES

Anonymous • 27 Oct 2020 13:45 • ✓ ANSWERED

Can we use TAC format(current format) before IWXXM implmentation? Have a plan any training or awareness?

2 Comments:

ICAO - Peter Dunda • Allowed on 28 Oct 2020, 09:55 • Allowed

In relation to IWXXM, please provide ICAO and/or MET/IE WG and/or this Webinar with more information on your specific training and awareness needs.

0 Upvotes | 0 Downvotes

Sue ORourke (AUS) • Allowed on 27 Oct 2020, 13:55 • Allowed

TAC for OPMET is an ICAO standard in Annex 3 and will continue to be until 2026 (at least). So you will need to continue to provide TAC.

In November 2020, IWXXM will be a standard also.

0 Upvotes | 0 Downvotes

4
VOTES

Anonymous • 28 Oct 2020 11:22 • ✓ ANSWERED

Is there any rough estimate on the file size of IWXXM for METAR or TAF? Wondering if AMHS/ROC/NOC/RODB in APAC be able to support IWXXM messages exchange with large file size.

1 Comments:

Humphrey • Allowed on 28 Oct 2020, 14:26 • Allowed

a sample METAR bulletin with 6 reports in it makes a ~30k IWXXM file - which becomes ~3.7k compressed

0 Upvotes | 0 Downvotes

4 Anonymous • 28 Oct 2020 10:44 • ✓ ANSWERED

VOTES To provide translation for other States, it is understood that agreement is required. Is there any agreement form/example which State can refer to?

2 Comments:

ICAO - Peter Dunda • Allowed on 28 Oct 2020, 11:04 • Allowed

For guidance on what an agreement should contain, please refer to GUIDELINES FOR THE IMPLEMENTATION OF OPMET DATA EXCHANGE USING IWXXM (<https://www.icao.int/APAC/Pages/eDocs.aspx> > MET), including the following:

Section 6.3.7: Translation Agreement - Provides a list of elements that should be contained in the service agreement between the Translation Centre and applicant State

Section 5.1.3: Data Translation Centre - A data translator converts TAC data into IWXXM on behalf of their State and/or another State (i.e. when the data producer is unable to do so). A bi-lateral or regional agreement should be defined for such circumstances.

Section 6.3.1: Pre-requisites for Translation Centres - Provides a list of items considered pre-requisite for data translation centres.

0 Upvotes | 0 Downvotes

Marco Kok • Allowed on 28 Oct 2020, 11:11 • Allowed

This would be covered in more details under Agenda Item 6 tomorrow.

Reference from EUR/NAT region regarding the translation agreement form:

[https://www.icao.int/eurnat/eur and nat documents/forms/allitems.aspx?RootFolder=/EURNAT/EUR and NAT Documents/EUR Documents/EUR Documents/MET Guidance/TAC to IWXXM Translation Service Agreements&FolderCTID=0x012000DAF95319EADD9946B510C5D7B595637D00AA5EB47B299B9A4BAD196E414A939-5FB4-4CB9-9139-466754ED0FA9](https://www.icao.int/eurnat/eur%20and%20nat%20documents/forms/allitems.aspx?RootFolder=/EURNAT/EUR%20and%20NAT%20Documents/EUR%20Documents/EUR%20Documents/MET%20Guidance/TAC%20to%20IWXXM%20Translation%20Service%20Agreements&FolderCTID=0x012000DAF95319EADD9946B510C5D7B595637D00AA5EB47B299B9A4BAD196E414A939-5FB4-4CB9-9139-466754ED0FA9)

0 Upvotes | 0 Downvotes

4
VOTES

Anonymous • 27 Oct 2020 13:21 • ✓ ANSWERED

How could the states get the IWXXM address for itself? Is there any procedures to be followed about applying the IWXXM address?

4 Comments:

Shan • Allowed on 27 Oct 2020, 13:22 • Allowed

And another question:

And how could the states know the other IWXXM addresses who could disseminate IWXXM messages?

0 Upvotes | 0 Downvotes

BL Choy, Hong Kong China • Allowed on 27 Oct 2020, 13:42 • Allowed

May I confirm that you are talking about the AMHS addresses to send/receive IWXXM messages?

0 Upvotes | 0 Downvotes

Shan • Allowed on 28 Oct 2020, 14:02 • Allowed

@BL Choy yes, the IWXXM address should be AMHS address.

@Pierre Thanks

0 Upvotes | 0 Downvotes

Pierre Kemmers • Allowed on 27 Oct 2020, 17:26 • Allowed

I will address this question in agenda item 5 on Wednesday after the break: addressing & routing IWXXM

0 Upvotes | 0 Downvotes

4
VOTES

Anonymous • 27 Oct 2020 10:34 • ✓ ANSWERED

AGENDA Item 1 - Please provide clarity on EFOD where a State has adopted the provisions of Annex 3, up to and including Amendment 79, but is delayed in practice due challenges brought up by COVID-19

3 Comments:

Sue ORourke (AUS) • Allowed on 27 Oct 2020, 10:37 • Allowed

If implementation of IWXXM is delayed due to COVID (or any other reason), just register a difference against the relevant Annex 3 provisions in the Electronic Filing of Differences (EFOD) system with an estimated date of implementation.

0 Upvotes | 0 Downvotes

ICAO - Peter Dunda • Allowed on 27 Oct 2020, 11:09 • Allowed

As Sue mentioned, please use the EFOD to file the differences including with Am. 79. Please note that, with reference to ICAO State Letter AN 11/55-20/50, ICAO created a COVID-19 Contingency Related Differences (CCRD) sub-system in the existing EFOD system to capture any differences from ICAO Standards on certification and licensing that may arise from mitigation measures due to the COVID-19 pandemic. It is accessible via the USOAP dashboard. The CCRD specifically facilitates recognition or validation of licences or certificates affected by the special measures.

0 Upvotes | 0 Downvotes

Chair - Tim Hailes • Allowed on 27 Oct 2020, 11:28 • Allowed

States can also look to arrange another State to perform TAC to IWXXM translation to support expedited IWXXM implementation. This will be discussed further during the workshop.

0 Upvotes | 0 Downvotes

4
VOTES

Lao PDR • 27 Oct 2020 12:06 • ✓ ANSWERED

Lao PDR, we use AMHS to sent the information data to Bangkok, but we do not have plan for the extended AMHS yet. So, Can we still use AMHS to sent the information data to Bangkok or not?

2 Comments:

Anonymous • Allowed on 27 Oct 2020, 13:19 • Allowed

you can still send TAC OPMET to Bangkok. However, OPMET in TAC will be phased out in 2026 and States should:

1) upgrading AMHS to extended service

Or

2) seek assistance from other States, in your case, may be Bangkok to translate your TAC Opmet into IWXXM Opmet.

0 Upvotes | 0 Downvotes

Lao PDR • Allowed on 27 Oct 2020, 13:45 • Allowed

Well noted and thank you very much

0 Upvotes | 0 Downvotes

3
VOTES

Rasheed_Maldives Met • 27 Oct 2020 11:14 • ✓ ANSWERED

May I know who is actually responsible for technical implementation of AMHS in a particular member country? Is it responsibility of MET or COM ?

3 Comments:

Pierre Kemmers • Allowed on 27 Oct 2020, 11:23 • Allowed

A bit of both. The COM group is responsible for upgrading their message switch, allowing AMHS connections with other parties. However, the connection is always between two parties so if COM is ready but MET cannot upgrade their end the upgrade is not possible

0 Upvotes | 0 Downvotes

Anonymous • Allowed on 27 Oct 2020, 11:32 • Allowed

It is always the best if COM center support FTBP first even if MET is not ready for IWXXM. It is because COM center can "relay" iwxxm messages to/from MET in other states.

0 Upvotes | 0 Downvotes

ICAO - Peter Dunda • Allowed on 27 Oct 2020, 12:10 • Allowed

I agree with above comments. Please also remember - Annex 3 [2.1.4] requires that each Contracting State shall designate the authority, hereinafter referred to as the meteorological authority (MA), to provide or to arrange for the provision of meteorological service for international air navigation on its behalf. Therefore, the (MA) has a clear role and responsibility in ensuring the dissemination of MET information in IWXXM form. It follows that the MA has a responsibility in ensuring that the required mechanism/s are in place (e.g., AMHS + FTBP) to enable the State to disseminate the required MET information in IWXXM GML form. It will almost undoubtedly require close liaison between those concerned with the supply (e.g., MET service provider, COM service provider) and those concerned with the use of meteorological information.

0 Upvotes | 0 Downvotes

3
VOTES

Anonymous • 29 Oct 2020 11:23 • ✓ ANSWERED

May I want to know WMO and ICAO responsibilities on IWXXM model, please clarify. Can ROC support in converting OPMET data from TAC data to IWXXM data?

3 Comments:

Sue ORourke (AUS) • Allowed on 29 Oct 2020, 11:30 • Allowed

ICAO, through the Meteorology Panel (METP) and it's Working Group on Meteorological Information Exchange (WG-MIE), proposes the standards and recommended practices (SARPs) for Annex 3. ICAO is also responsible for developing and updating the guidance material such as Doc 10003 - "Manual on the ICAO Meteorological Information Exchange Model" and the IWXXM Guidelines - "Guidelines for the implementation of OPMET data exchange using IWXXM". WMO, through the Task Team on Aviation Data (TT-AvData) develops the IWXXM schema and maintains the IWXXM Wiki and documents such as: No.306 Vol I.3: "Manual on Codes Part D - Representations derived from data models"

0 Upvotes | 0 Downvotes

Chair - Tim Hailes • Allowed on 29 Oct 2020, 11:40 • Allowed

Some States have indicated that they will offer TAC to IWXXM conversion. Some of these States are ROCs but we do not expect all ROCs to offer translation.

0 Upvotes | 0 Downvotes

Chair - Tim Hailes • Allowed on 29 Oct 2020, 11:44 • Allowed

Where a State provides translation (conversion) on behalf of another State a formal agreement should document this arrangement. This agreement should also be lodged with ICAO Regional Office.

0 Upvotes | 0 Downvotes

3
VOTES

Anonymous • 27 Oct 2020 14:02 • ✓ ANSWERED

AI -when filing an EFOD against the standards, e.g. 3.1.2(VAA), or 5.1.3 on TCAC, where do we indicate our inability as a State to fulfill our role eg NOC, ROC, IROG, RODB? Please explain

2 Comments:

ICAO - Peter Dunda • Allowed on 28 Oct 2020, 18:06 • Allowed

The SARPs in Annex 3, App. 2, 3.1.2 and 5.1.3, are applicable (in APAC) only to Australia, Fiji, India, Japan and New Zealand.

If a State concerned has not brought its practices into full accord with the corresponding SARP (e.g., the State does not disseminate the required volcanic ash and/or tropical cyclone advisory information in IWXXM GML form in addition to the dissemination of this advisory information in abbreviated plain language), then the State is required to notify ICAO, e.g., using the EFOD.

There is, however, no specific SARP requiring States to provide NOC, ROC, IROG, RODB. Therefore, States that are designated (by regional air navigation agreement and/or regional OPMET bulletin exchange scheme) to provide NOC, ROC, IROG, RODB are not required to indicate their inability to fulfil that role using the EFOD.

Nevertheless, any State that is unable to fulfil its (designated) role in providing NOC, ROC, IROG or RODB should make appropriate efforts to inform ICAO.

0 Upvotes | 0 Downvotes

ICAO - Peter Dunda • Allowed on 28 Oct 2020, 22:07 • Allowed

To summarize my comment above:

To notify ICAO of differences to SARPs (e.g., not implemented SARPs for IWXXM) - please use EFOD system.

To notify ICAO (and other APAC States) of inability to fulfil role of NOC, ROC, IROG or RODB - please inform ICAO Regional Office, MET/IE WG (and this Webinar).

0 Upvotes | 0 Downvotes

3
VOTES

Anonymous • 29 Oct 2020 13:47 • ✓ ANSWERED

Is it possible to save all Q&A from here or admin can send the records to us?

2 Comments:

Sue ORourke (AUS) • Allowed on 29 Oct 2020, 13:51 • Allowed

Yes we will do that

0 Upvotes | 0 Downvotes

Sue ORourke (AUS) • Allowed on 29 Oct 2020, 13:52 • Allowed

We will also post a summary of the Q&A on the meeting webpage.

0 Upvotes | 0 Downvotes

3
VOTES

Pierre Kemmers • 28 Oct 2020 13:06 • ✓ ANSWERED

AI 5: routing IWXXM: For COM specialists: is your quoted P1 connection with other nations already capable of FTBP transfer?

3 Comments:

Patrick (Hong Kong China) • Allowed on 29 Oct 2020, 11:18 • Allowed

Hong Kong China (HKG) P1 FTBP connection as follow:

HKG with Philippines: 2 MB

HKG with Thailand: 6 kB

HKG with Taipei: 2 MB

0 Upvotes | 0 Downvotes

Ian Dore • Allowed on 28 Oct 2020, 13:51 • Allowed

NZ is FTBP ready...

0 Upvotes | 0 Downvotes

Jesseelyn Heje • Allowed on 28 Oct 2020, 14:13 • Allowed

RP P1 connection is already capable of FTBP transfer, however we have limitation on the message size capability, our system can only transfer message of up to 2MB.

0 Upvotes | 0 Downvotes

3
VOTES

Anonymous • 27 Oct 2020 12:27 • ✓ ANSWERED

As part of an IROG's role, may I know who is responsible for the auto-forwarding/routing of OPMET messages via AMHS ? MET Service or COM Centre ?

1 Comments:

Anonymous • Allowed on 27 Oct 2020, 13:45 • Allowed

AMHS Server is owned by COM Centre, MET Service is the client

0 Upvotes | 0 Downvotes

2
VOTES

Pongpob • 28 Oct 2020 11:25 • ✓ ANSWERED

At this stage, do we need some other IWXXM validation apart from schema and schematron, such as bulletin is out of period or correction received but no prior initial message?

1 Comments:

BL Choy, Hong Kong China • Allowed on 28 Oct 2020, 11:49 • Allowed

As this moment the team considers it more important to deal with integrity of IWXXM messages. There may be checks with reference to business rules later on but they will have yet to be put onto the wish list.

0 Upvotes | 0 Downvotes

2
VOTES

Anonymous • 28 Oct 2020 11:05 • ✓ ANSWERED

Can IWXXM Extension be used to transfer information outside State? If so, is there any specific body like FIXM CCB to validate such Extension for wider user?

2 Comments:

Sue ORourke (AUS) • Allowed on 28 Oct 2020, 11:10 • Allowed

There is no Change Control Board (CCB) for IWXXM. Changes are managed through WMO and ICAO.

0 Upvotes | 0 Downvotes

Sue ORourke (AUS) • Allowed on 28 Oct 2020, 11:13 • Allowed

The Meteorology Panel Working Group on Meteorological Information Exchange (WG-MIE) has been looking at the topic of Extensions. There are a number of WMO Task Team on Aviation Data (TT-AvData) experts that are also experts on WG-MIE.

0 Upvotes | 0 Downvotes

2
VOTES

Anonymous • 27 Oct 2020 13:18 • ✓ ANSWERED

The explanation on BULLETINS history sounds helpful, but due connectivity issue (distortions) I was unable to hear clearly. Can anyone just comment back the main points of what was said?

2 Comments:

ICAO - Peter Dunda • Allowed on 27 Oct 2020, 13:45 • Allowed

Tim wrote: "I would recommend that the existing bulletin gets split into two separate bulletins, one containing IWXXM generated as source, the other containing data for sites that are generated in TAC and translated to IWXXM. An aerodromes (METAR or TAF) data should only exist in one bulletin".

0 Upvotes | 0 Downvotes

ICAO - Peter Dunda • Allowed on 27 Oct 2020, 13:45 • Allowed

I agree with Tim's proposal. In addition, I wish to suggest that the ICAO APAC Region has an opportunity, through the MET/IE WG, to develop a proposal/s to update or revise the current ROBEX scheme and ROBEX Handbook to guide States towards the most appropriate solution for ICAO APAC OPMET bulletins.

0 Upvotes | 0 Downvotes

2
VOTES

Anonymous • 27 Oct 2020 13:39 • ✓ ANSWERED

As part of an IROG's role, may I know who is responsible for the auto-forwarding/routing of OPMET messages via AMHS ? MET Service or COM Centre ?

4 Comments:

Anonymous • Allowed on 27 Oct 2020, 13:47 • Allowed

AMHS Server is owned by COM Centre, MET Service is the client

0 Upvotes | 0 Downvotes

ICAO - Peter Dunda • Allowed on 27 Oct 2020, 13:57 • Allowed

ROBEX Handbook: Exchange of OPMET data between the APAC region and the other ICAO regions is carried out via designated centres, which serve as Inter-regional OPMET Gateways (IROG). An IROG is set up for sending and receiving specified OPMET data between the APAC region and other ICAO regions.

Inter-regional OPMET exchange via IROGs is carried out through the ground segment of the AFS (AFTN/AMHS).

Inter-regional OPMET Gateways (IROG). The Inter-regional OPMET Gateways in the APAC Region are the designated RODBs. Each RODB is assigned responsibility for the exchange of OPMET information with other ICAO Regions. The responsibilities of the IROGs are shown in 11.1 of this Handbook.

0 Upvotes | 0 Downvotes

Kentaro Tsuboi (Japan) • Allowed on 27 Oct 2020, 14:18 • Allowed

In Japan case, MET office (JMA) should transmit messages in APAC to Washington as IROG. It is difficult to filter targeted messages at the COM center.

0 Upvotes | 0 Downvotes

Anonymous • Allowed on 27 Oct 2020, 14:42 • Allowed

Thanks for the info

0 Upvotes | 0 Downvotes

2
VOTES

Anonymous • 29 Oct 2020 11:44 • ✓ ANSWERED

The exchange of IWXXM requires full path of FTBP-ready Com center from originator to destination. It's hard to ensure the whole path is FTBP-ready especially during interruption or reply to a RQX..

1 Comments:

Pierre Kemmers • Allowed on 29 Oct 2020, 12:34 • Allowed

I agree, this is sadly the case until all of the AFS network is AMHS FTBP. This is part of my argument that IWXXM destination addresses should be unique and easily identifiable as such

0 Upvotes | 0 Downvotes

2
VOTES

Anonymous • 27 Oct 2020 11:26 • ✓ ANSWERED

Is there be detailed information in the annex 3 2020 for using IWXXM for the METAR/SPECI, TAF, SIGMET, PMD is going to implement it

2 Comments:

Sue ORourke (AUS) • Allowed on 27 Oct 2020, 11:39 • Allowed

**Doc 10003 - Manual on the ICAO Meteorological Information Exchange Model
IWXXM Guidelines - Guidelines for the implementation of OPMET data exchange using IWXXM**

0 Upvotes | 0 Downvotes

Sue ORourke (AUS) • Allowed on 27 Oct 2020, 13:05 • Allowed

IWXXM Guidelines are at: <https://www.icao.int/APAC/Pages/eDocs.aspx> > MET

0 Upvotes | 0 Downvotes

2
VOTES

Sue ORourke (AUS) • 27 Oct 2020 10:21 • ✓ ANSWERED

Please put reference to the Agenda Item that your question is related to.

2
VOTES

Chair - Tim Hailes • 27 Oct 2020 10:44 ★

Agenda Item 1 - Please update any information in the IWXXM Survey through adding a comment to this question.

2
VOTES

Anonymous • 28 Oct 2020 11:59 • ✓ ANSWERED

if a parameter is missing in TAC(eg wx is missing in METAR) how IWXXM will generate report

1 Comments:

BL Choy, Hong Kong China • Allowed on 28 Oct 2020, 14:10 • Allowed

There are all sorts of examples at <https://github.com/wmo-im/iwxxm-translation/tree/master/Amd78-2018/metar>

0 Upvotes | 0 Downvotes

2
VOTES

Kelepi Dainaki • 27 Oct 2020 11:06 • ✓ ANSWERED

Fiji Update on Presentation 01:1.d. AMHS and FTBP – ROC to IROG? Q1 2022 , 1.e. RODB – storage of IWXXM? Q1 2022, 4. Data Translation Centre for TAC to IWXXM? Q1 2022

1 Comments:

JMA - Jun Ryuzaki • Allowed on 27 Oct 2020, 11:10 • Allowed

Thank you. Acknowledged.

0 Upvotes | 0 Downvotes

1
VOTES

Humphrey • 28 Oct 2020 13:59 • ✓ ANSWERED

(Pierre NOC-NOC sharing) Every NOC provides AMHS address & a contact email address. NZ regards itself as AMHS+FTBP capable. Suggest also all test data comes in 3 sizes: <4kB, 4-6kB & > 6kB zipd

1 Comments:

Pierre Kemmers • Allowed on 28 Oct 2020, 14:18 • Allowed

Thanks for the feedback, Humphrey! Yep AMHS address and related email address for POC would be great!

0 Upvotes | 0 Downvotes

1
VOTES

Graham Rennie • 29 Oct 2020 11:30 • ✓ ANSWERED

Thanks for these excellent presentations with development timelines but is the inbuilt flexibility sufficient to allow for the impact of COVID 19. Applicable to both MET providers, COM and all users

3 Comments:

Sue ORourke (AUS) • Allowed on 29 Oct 2020, 11:43 • Allowed

Annex 3 amendment cycle changed to a 3-year cycle. Next main amendment is 2023 then 2026 etc.

METP, in conjunction with WMO, looking at impacts of COVID-19 - particularly on when Annex 3 provisions become applicable and how we will implement IWXXM and SWIM in a cost effective manner.

We do, however need to look at earlier adopters.

0 Upvotes | 0 Downvotes

JMA - Jun RYUZAKI • Allowed on 29 Oct 2020, 12:01 • Allowed

Further cost effectiveness needs due to COVID-19 impact is a common issue in most of the States to be discussed at Regional level. MET SG/24 meeting will cover COVID-19 impact and discuss ways to move forward.

0 Upvotes | 0 Downvotes

Pierre Kemmers • Allowed on 29 Oct 2020, 12:40 • Allowed

Thanks Graham. These timelines are quickly changing, for example when you compare them to status updates and plans from mid 2019.

However, the ultimate beneficiaries of IWXXM are airlines for improved MET decision making. The investment plans (and changes thereof) should be topic of ongoing conversation nationally between MET, ANSP and users!

0 Upvotes | 0 Downvotes

1
VOTES

Anonymous • 27 Oct 2020 11:10 • ✓ ANSWERED

AI2 - Would you please provide insight on what will be included in Annex 3, Amd 80, 81, and 82?

1 Comments:

Sue ORourke (AUS) • Allowed on 27 Oct 2020, 11:24 • Allowed

Amd 80 (2021) is only introducing changes to State of the Runway (no other changes).

Amd 81 (2023), IWXXM and TAC are still standards

Amd 82 (2026), IWXXM is still a standard. We are still looking at whether TAC remains as a standard (and a means of compliance if PANS-MET is implemented). Another critical thing we need to look at is the implementation of SWIM in this timeframe - particularly given COVID-19.

0 Upvotes | 0 Downvotes

1
VOTES

Renato Iannella (AUS) • 28 Oct 2020 10:29 • ✓ ANSWERED

If the reportStatus is an Update, do you refer to the previous gml:ID of the message being updated?

1
VOTES

Shan • 28 Oct 2020 10:31 • ✓ ANSWERED

Suggestions to the IWXXM schema: is it possible to make the element "translatedBulletinID" be required? If the translation center forget to add this element to the bulletin, it would be confused.

2 Comments:

BL Choy, Hong Kong China • Allowed on 28 Oct 2020, 11:35 • Allowed

While the attribute "translatedBulletinID" is optional, it's presence will be checked by schematron rule Common.Report-3 in iwxxm.sch. See the one for IWXXM 3.0.0 at <http://schemas.wmo.int/iwxxm/3.0/rule/iwxxm.sch>

0 Upvotes | 0 Downvotes

Shan • Allowed on 28 Oct 2020, 12:23 • Allowed

Thanks very much! Get it.

0 Upvotes | 0 Downvotes

1
VOTES

Anonymous • 29 Oct 2020 11:35 • ✓ ANSWERED

who will provide IWXXM Model to translate TAC Who will provide IWXXM model to translate TAC (METAR, TAF,)

1
VOTES

David Otalifua Tapiel • 28 Oct 2020 13:29 • ✓ ANSWERED

I just have comment to make with respect to Bangkok, I don't quiet understand to limitation. Is it that there is no possibility to actually change the Transfer rate and transfer time limit?

1 Comments:

Pongpob • Allowed on 29 Oct 2020, 13:25 • Allowed

It is neither transfer rate nor time limit, but the file limit size of ATN router.

0 Upvotes | 0 Downvotes

1
VOTES

Singapore - Gavin YEAP • 28 Oct 2020 11:21 • ✓ ANSWERED

Hi. How do we engage the CNS sub-group to coordinate the IWXXM implementation in ATIS and VOLMET? Thanks.

3 Comments:

ICAO - Peter Dunda • Allowed on 28 Oct 2020, 22:48 • Allowed

Hi Gavin. METAR/SPECI (as well as TAF and SIGMET) will continue to be disseminated in the (traditional) METAR/SPECI (and TAF) code forms prescribed by WMO (and the SIGMET template in Annex 3) and, therefore, will continue to be available in the same way they are now for use in VOLMET.

Local routine and special reports are not affected by the IWXXM SARPs. Therefore, ATIS should not be affected.

However, taking into account that IWXXM format will likely be the only standard exchange format by 2026, APANPIRG adopted Conclusion 30/18: Discontinuation of meteorological information in TAC form, urging States to consider necessary changes to migrate systems to enable the use of IWXXM form as an alternate to TAC form, and prepare for consequential impacts to aviation meteorological services such as VOLMET broadcast, weather briefing system and flight documentation preparation system.

0 Upvotes | 0 Downvotes

ICAO - Peter Dunda • Allowed on 28 Oct 2020, 11:30 • Allowed

With regards to engaging CNS/SG, States are able to directly submit proposals for consideration by CNS/SG. Likewise, States are able to submit proposals for consideration by MET/IE WG and/or MET/SG, which may in turn decide to submit a specific proposal for consideration by CNS/SG.

With regards to IWXXM implementation in ATIS and VOLMET, please provide specific details of the particular issue.

0 Upvotes | 0 Downvotes

Singapore - Gavin YEAP • Allowed on 28 Oct 2020, 11:39 • Allowed

Hi Peter, I'm just wondering if the CNS/SG counterparts are in the loop as well for the impending transformation from TAC to XML (for METAR/SPECI and MET REPORT/SPECIAL), so that the necessary configuration of the ATIS and VOLMET would be timely, in order to interpret the XML we are soon sending. They did also participate in our previous IWXXM Workshop in Bangkok last year. Thanks.

0 Upvotes | 0 Downvotes

1
VOTES

Shan • 28 Oct 2020 10:47 • ✓ ANSWERED

When could the IWXXM attribute "translationfailedTAC" be used? e.g. If a metar/taf bulletin is received, which have the wrong words, then it still needs to be translated?

2 Comments:

Marco Kok • Allowed on 28 Oct 2020, 13:11 • Allowed

If the wrong codes in TAC lead to incomplete (partial) translation, it should be considered as translation failure and indicated by "translationfailedTAC".

With regard to the translation of the TAC bulletin (METAR/TAF), we could break down the TAC bulletin into TAC reports of individual airports, do the translation for TAC reports of individual airports, and then aggregate the translated IWXXM reports.

It would be more desirable if we could do the TAC-to-IWXXM translation before the TAC reports are compiled into a TAC bulletin.

0 Upvotes | 0 Downvotes

Shan • Allowed on 28 Oct 2020, 13:38 • Allowed

Thanks for your suggestions, Mr. Marco

0 Upvotes | 0 Downvotes

1
VOTES

henna • 28 Oct 2020 10:56 • ✓ ANSWERED

Would you please mention some tools that can be used to validate IWXXM? If there are more than one validator besides XSD Thank you

1 Comments:

BL Choy, Hong Kong China • Allowed on 28 Oct 2020, 11:21 • Allowed

We are using a number of opensource and commercial tools to validate IWXXM messages in our development work. One opensource tool you may want to check out is CRUX from NCAR at <https://github.com/NCAR/crux>

0 Upvotes | 0 Downvotes

1
VOTES

Anonymous • 29 Oct 2020 11:02 • ✓ ANSWERED

PIAWSP -will you translate TAC to IWXXM and send back to Fiji RODB/ROC to disseminate?

1 Comments:

Paula Acethorp (CAA NZ) • Allowed on 29 Oct 2020, 11:04 • Allowed

The plan at this stage is for Wellington ROC to disseminate the IWXXM bulletin on behalf of Nadi ROC (rather than sending it back to Nadi to disseminate).

0 Upvotes | 0 Downvotes

1
VOTES

henna • 28 Oct 2020 12:52 • ✓ ANSWERED

Is there any document describe more detail about RQX and RQM, which explain the iwxxm step before passing AMHS

1 Comments:

ICAO - Peter Dunda • Allowed on 28 Oct 2020, 13:50 • Allowed

Please refer to **GUIDELINES FOR THE IMPLEMENTATION OF OPMET DATA EXCHANGE USING IWXXM**

2.8 International OPMET Databank, Operational principles: - OPMET Databank Requests

5.1.5 International OPMET Databank, Operational principles: - DB Requests

0 Upvotes | 0 Downvotes

1
VOTES

Kelepi Dainaki • 27 Oct 2020 12:02 • ✓ ANSWERED

In the absence a of SARP on how Data Translation Center operate, will ICAO provide an implementation guideline on the operation of the Data Translation Center to exchange the IWXXM data.

1 Comments:

ICAO - Peter Dunda • Allowed on 27 Oct 2020, 12:17 • Allowed

Please refer to **GUIDELINES FOR THE IMPLEMENTATION OF OPMET DATA EXCHANGE USING IWXXM** (<https://www.icao.int/APAC/Pages/eDocs.aspx> > MET), including sections 6.3.1: Pre-requisites for Translation Centres; and 6.3.7: Translation Agreement.

0 Upvotes | 0 Downvotes

1
VOTES

Graham Rennie • 28 Oct 2020 10:16 • ✓ ANSWERED

Will translated messages be obvious to users users?

1
VOTES

Anonymous • 27 Oct 2020 13:39 • ✓ ANSWERED

What about those countries having AFTN links with other states? Is AFTN link can relay IWXXM message to the ROC?

3 Comments:

ICAO - Peter Dunda • Allowed on 27 Oct 2020, 13:42 • Allowed

Due to technical differences between the old and new formats, aeronautical meteorological information in IWXXM form cannot be transmitted in the same way as it is in Traditional Alphanumeric Code (TAC) form via the Aeronautical Fixed Telecommunication Network (AFTN). Instead, the ICAO guidance identifies the Air Traffic Services Message Handling System (AMHS) as a mechanism for the exchange of IWXXM information using the extended AMHS File Transfer Body Part (FTBP) feature over the Aeronautical Fixed Service (AFS).

In addition, due to the much larger file sizes associated with IWXXM, the ICAO guidance indicates that the total size of an AMHS message (including FTBP) should be up to 4 MB.

0 Upvotes | 0 Downvotes

Anonymous • Allowed on 27 Oct 2020, 13:44 • Allowed

Thanks for the detailed explanation...

0 Upvotes | 0 Downvotes

Bono (PCCW) • Allowed on 28 Oct 2020, 15:03 • Allowed

CRV is the latest IP enabled network to modernize the COM network among ANSPs. It can support new aeronautical applications and no constraint on the bandwidth to be subscribed.

0 Upvotes | 0 Downvotes

1
VOTES

Shan • 28 Oct 2020 14:25 • ✓ ANSWERED

When the IWXXM bulletin is needed to be disseminated to many destinations, could all of the addresses be added in one ATN data packet (like sending an e-mail)?

2 Comments:

Pierre Kemmers • Allowed on 29 Oct 2020, 10:01 • Allowed

Many addresses can be added in one AMHS message. For your system it will just be one message being sent out, but it may end up at 20 destinations

0 Upvotes | 0 Downvotes

Shan • Allowed on 29 Oct 2020, 10:04 • Allowed

Thank you very much!

0 Upvotes | 0 Downvotes

1
VOTES

ROK-Dongwon Lee • 29 Oct 2020 11:20 • ✓ ANSWERED

On consumers aspect, I think consumer(e.g airlines) will not be able to connect to AMHS, where and how can they get IWXXM information?

1 Comments:

Pierre Kemmers • Allowed on 29 Oct 2020, 11:23 • Allowed

Quite a few airlines are connected to the AFS via their domestic COM Centre; others connect to the AFS via SITA gateways. The airlines can upgrade their AFTN connections to local COM Centre to AMHS FTBP, but this might be an investment that is hard to commit to at this moment. Alternative source of IWXXM data will be through WIFS and SADIS.

0 Upvotes | 0 Downvotes

1
VOTES

Anonymous • 28 Oct 2020 11:17 • ✓ ANSWERED

Can you prefer IWXXM implementation software of TAC to IWXXM convector? Is require estimate costs(Budget)?

2 Comments:

Humphrey • Allowed on 29 Oct 2020, 12:04 • Allowed

our translation tool is provided by <http://www.netsys.aero/> . it is part of our message switch but I understand that there is a standalone version. you would have to contact them. I don't know if there are other possible software providers with standalone options

0 Upvotes | 0 Downvotes

Humphrey • Allowed on 28 Oct 2020, 14:31 • Allowed

come to "Steps to IWXXM implementation" tomorrow

0 Upvotes | 0 Downvotes

1
VOTES

Peter Dunda • 27 Oct 2020 09:22 • ✓ ANSWERED

Just testing

1 Comments:

Peter Dunda • Allowed on 27 Oct 2020, 09:22 • Allowed

Just testing

0 Upvotes | 0 Downvotes

1
VOTES

ROK-Dongeon Lee • 27 Oct 2020 10:56 • ✓ ANSWERED
ROK is willing to conduct the Data Translation center. could you let us in?

2 Comments:

JMA - Jun Ryuzaki • Allowed on 27 Oct 2020, 11:01 • Allowed

Thank you for your information. Arrangements regarding IWXXM translation services will be further discussed on DAY 3, under Agenda Item 6.

0 Upvotes | 0 Downvotes

Anonymous • Allowed on 27 Oct 2020, 11:53 • Allowed

is this service provided for free or does it come at a cost?

0 Upvotes | 0 Downvotes

1
VOTES

Shan • 29 Oct 2020 12:22 • ✓ ANSWERED
Is there any experience or suggestions about the translation to share? How to convert the location of the significant weather in TAC report to lat&lon (or polygons) in IWXXM?

8 Comments:

Sue ORourke (AUS) • Allowed on 29 Oct 2020, 12:24 • Allowed

Can you provide an example please? Do you use places/airports/waypoints in SIGMET instead of lat/long?

0 Upvotes | 0 Downvotes

Shan • Allowed on 29 Oct 2020, 12:31 • Allowed

e.g. The TAC:

```
YUDD SIGMET 2 VALID 101200/101600 YUSO-
```

```
YUDD SHANLON FIR/UIR OBSC TS FCST S OF N54 AND E OF W012 TOP FL390 MOV E 20KT  
WKN
```

The related IWXXM:

```
<aixm:horizontalProjection>
```

```
  <aixm:Surface gml:id="uuid.e20caa4b-2b93-4d28-9b14-e04196314999"  
  srsDimension="2" axisLabels="Lat Long"  
  srsName="http://www.opengis.net/def/crs/EPSSG/0/4326">
```

```
  ...
```

```
  <gml:posList>
```

```
    54.0 -12.0 54.0 -8.0 50.0 -8.0 50.0 -12.0 54.0 -12.0
```

```
  </gml:posList>
```

```
</gml:LinearRing>
```

```
</gml:exterior>
```

The example comes from the schema.wmo.int website.

0 Upvotes | 0 Downvotes

Shan • Allowed on 29 Oct 2020, 12:35 • Allowed

I can't find any way or information about the mapping: "S OF N54 AND E OF W012" to the posList "54.0 -12.0 54.0 -8.0 50.0 -8.0 50.0 -12.0 54.0 -12.0".

Is there any guidance about the mapping?

0 Upvotes | 0 Downvotes

Shan • Allowed on 29 Oct 2020, 12:39 • Allowed

We have not found the right way instead of lat/long, the places/airports/waypoints can't be received timely by us from the MWOs now.

0 Upvotes | 0 Downvotes

Sue ORourke (AUS) • Allowed on 29 Oct 2020, 12:41 • Allowed

It's always easier to start with a polygon in the TAC SIGMET message. So where possible it is preferred that a polygon is used. However, Annex 3 still allows us to write "S OF", "W OF", "ENTIRE FIR" etc. In that case the FIR boundary needs to be used to help make up the polygon.

Maybe someone from TT-AvData may be able to explain how it is done with the IWXXM SIGMET Schema, because I'm not sure of the technical details.

Airports/Waypoints can no longer be used in a TAC SIGMET.

0 Upvotes | 0 Downvotes

BL Choy, Hong Kong China • Allowed on 29 Oct 2020, 13:03 • Allowed

The line will intersect with the FIR and together they will form a closed polygon covering the meteorological phenomenon involved. There are many software libraries out there to help you do the intersection and return the polygon to you.

0 Upvotes | 0 Downvotes

BL Choy, Hong Kong China • Allowed on 29 Oct 2020, 13:13 • Allowed

There is a wiki page summarising the way geometric objects are described in different IWXXM reports. You may want to take a look at <https://github.com/wmo-im/iwxxm/wiki/Geospatial-objects-in-IWXXM>

0 Upvotes | 0 Downvotes

Shan • Allowed on 29 Oct 2020, 13:31 • Allowed

Thanks all! The suggestions are very useful!

0 Upvotes | 0 Downvotes

1
VOTES

Pierre Kemmers • 28 Oct 2020 13:05 • ✓ ANSWERED

AI 5: addressing IWXXM. what is your ROC opinion about addressing by ROC to all APAC ROC for all products?

1 Comments:

Humphrey • Allowed on 28 Oct 2020, 14:37 • Allowed

I think that its a pragmatic approach. Every NOC provides AMHS address & a contact email address. NZ regards itself as AMHS+FTBP capable. Suggest also all test data comes in 3 sizes: <4kB, 4-6kB & > 6kB zipd to also discover any size limitations encountered on the way.

0 Upvotes | 0 Downvotes

0
VOTES

SHAHID HUSSAIN • 28 Oct 2020 12:30 • ✓ ANSWERED

in CRV does alternate routing will be automatic or require manual intervention.

1 Comments:

Bono (PCCW) • Allowed on 28 Oct 2020, 15:16 • Allowed

CRV network is built with diversified infrastructure and is capable of automatic re-route. The AMHS traffic routing depends on user's configuration.

0 Upvotes | 0 Downvotes

0
VOTES

Anonymous • 29 Oct 2020 10:21 • ✓ ANSWERED

Q Regarding RODB presentation, What about the IWXXM exchange for other states coming under the responsibility of Bangkok RODB?

0
VOTES

Bolormaa & Sukhbaatar Mongolia • 28 Oct 2020 11:31 • ✓ ANSWERED

Where can we take converted file that including TAC and XML (TAC to XML). We need to check(validation) translator of IWXXM (TAF/TAF AMD, METAR, SPECI, SIGMET, AIRMET)

1 Comments:

BL Choy, Hong Kong China • Allowed on 28 Oct 2020, 11:44 • Allowed

Apart from some examples under <http://schemas.wmo.int/iwxxm/3.0/examples/>, there are some additional examples at <https://github.com/wmo-im/iwxxm-translation> which may want to try with your translator

1 Upvotes | 0 Downvotes

0
VOTES

Paula Acethorp (CAA NZ) • 27 Oct 2020 12:57 • ✓ ANSWERED

Agenda item 3: (Collectives & aggregation) - some bulletins contain METARs and TAFs from multiple States. (Question continues in comments...)

4 Comments:

Paula Acethorp (CAA NZ) • Allowed on 27 Oct 2020, 13:00 • Allowed

If some of these States require translation services and others generate their own IWXXM, what are the options for aggregation - or, if not possible due to current ROC capabilities, creating new bulletins?

For example, could the TAC bulletin (eg Sxxx11) have the IWXXM counterparts Lxxx11 (translated data) and Lxxx12 (generated by State themselves)? Or do they **have** to be aggregated?

0 Upvotes | 0 Downvotes

Paula Acethorp (CAA NZ) • Allowed on 27 Oct 2020, 13:05 • Allowed

(Noting also there is a need to not create duplicate IWXXM messages - ie one from the originating State and another created via translating a bulletin)

0 Upvotes | 0 Downvotes

Chair - Tim Hailes • Allowed on 27 Oct 2020, 13:19 • Allowed

I would recommend that the existing bulletin gets split into two separate bulletins, one containing IWXXM generated as source, the other containing data for sites that are generated in TAC and translated to IWXXM. An aerodromes (METAR or TAF) data should only exist in one bulletin.

0 Upvotes | 0 Downvotes

ICAO - Peter Dunda • Allowed on 27 Oct 2020, 13:30 • Allowed

I agree with Tim's proposal. In addition, I wish to suggest that the ICAO APAC Region has an opportunity, through the MET/IE WG, to develop a proposal/s to update or revise the current ROBEX scheme and ROBEX Handbook to guide States towards the most appropriate solution for ICAO APAC OPMET bulletins.

0 Upvotes | 0 Downvotes

0
VOTES

Graham Rennie • 28 Oct 2020 10:41 • ✓ ANSWERED

If there is a problem translating a TAC report and it misses the ROBEX schedule will the AFTN ROBEX go out on schedule?

0
VOTES

Patrick (Hong Kong China) • 29 Oct 2020 13:29 • ✓ ANSWERED

May I know if Singapore ROC, Thailand ROC and Brisbane ROC will be ready to receive IWXXM bulletins from ROCs from 5 Nov? If so, please provide the IWXXM address if possible here.

8 Comments:

Patrick (Hong Kong China) • Allowed on 29 Oct 2020, 16:35 • Allowed

ROC of Hong Kong China AMHS address for IWXXM:

/C=XX/A=ICAO/P=HONGKONG/O=HKGCAD/OU1=VHHH/CN=VHHHPYL/

0 Upvotes | 0 Downvotes

Pierre Kemmers • Allowed on 29 Oct 2020, 13:33 • Allowed

ROC Brisbane will be YBBBYPYL

0 Upvotes | 0 Downvotes

Patrick (Hong Kong China) • Allowed on 29 Oct 2020, 13:35 • Allowed

ROC Hong Kong - VHHHPYL

0 Upvotes | 0 Downvotes

Pongpob • Allowed on 29 Oct 2020, 13:36 • Allowed

ROC BANGKOK - VTBBYPYL

0 Upvotes | 0 Downvotes

Goh Wee Poh • Allowed on 29 Oct 2020, 13:38 • Allowed

ROC Singaopre - WSSYPYL

0 Upvotes | 0 Downvotes

Kentaro Tsuboi (Japan) • Allowed on 29 Oct 2020, 13:48 • Allowed

ROC Tokyo allocated RJTDZYA for IWXXM.

Is it necessary to share the full AMHS address for IWXXM exchange?

0 Upvotes | 0 Downvotes

Pierre Kemmers • Allowed on 29 Oct 2020, 13:55 • Allowed

Fair point from Kentaro: here is full ROC Brisbane address:

C=XX / A=ICAO / P=AUSTRALIA / O=YBBN / OU1=YBBB / CN=YBBBYPYL

0 Upvotes | 0 Downvotes

Kentaro Tsuboi (Japan) • Allowed on 29 Oct 2020, 14:10 • Allowed

Thank you, Pierre.

Tokyo AMHS address for IWXXM:

C=XX/A=ICAO/P=RJ/O=AFTN/OU1=RJTD/CN=RJTDZYA

0 Upvotes | 0 Downvotes

0
VOTES

Graham Rennie • 28 Oct 2020 10:15 • ✓ ANSWERED

What is the latency with translating information and will time this be consistent across ROC or translating States?

0
VOTES

JMA - Kazuki Yasui • 28 Oct 2020 13:18 • ✓ ANSWERED

Agenda Item 4: When we would like to disseminate IWXXM reports, is it always necessary to aggregate the reports? (My question continues in comment.)

4 Comments:

JMA - Kazuki Yasui • Allowed on 28 Oct 2020, 13:18 • Allowed

I wonder whether we must use <collect:...> schema even if we would like to send non-regular reports, such as SIGMET, SPECI and TAF AMD.

It might be helpful to have help desk or something to ask issues which we would have during development of systems or programs to produce IWXXM reports.

0 Upvotes | 0 Downvotes

BL Choy, Hong Kong China • Allowed on 28 Oct 2020, 13:53 • Allowed

Only METAR and TAF needs to be aggregated. All IWXXM messages, no matter aggregated or not, will have to be encapsulated with COLLECT before sending out through AMHS.

1 Upvotes | 0 Downvotes

JMA - Kazuki Yasui • Allowed on 28 Oct 2020, 14:04 • Allowed

I understand. Thank you very much.

0 Upvotes | 0 Downvotes

Marco Kok • Allowed on 28 Oct 2020, 13:38 • Hidden

(Edited)

1 Upvotes | 1 Downvotes

0
VOTES

Hieu Nba • 29 Oct 2020 13:33 • ✓ ANSWERED

We are concerning about our sadis system after phase 2. Could you tell me what do we have to do with IWXXM data for sadis system? Tks!

0
VOTES

SHAHID HUSSAIN • 28 Oct 2020 13:47 • ✓ ANSWERED

For exchange of FTBP messages requires P1 connection. OPKC has a P1 connection with VABB but alternate connection is AFTN with alternate routing. what will be the arrangements during the interruption

1 Comments:

Pierre Kemmers • Allowed on 28 Oct 2020, 14:02 • Allowed

I agree that not many alternates exist for now.

If I can call on people in the COM space to update their AMHS upgrade plans in the AMC files, that would be a great resource.

0 Upvotes | 0 Downvotes

0
VOTES

Shan • 29 Oct 2020 13:06 • ✓ ANSWERED

[For BL Choy] Would you like to share the PPT on the website instead of the PDF? It seems the pdf had lost the super link for some content.

1 Comments:

BL Choy, Hong Kong China • Allowed on 29 Oct 2020, 13:11 • Allowed

My apologies for making this so inconvenient. Could Peter post the PPT instead of the PDF on the ICAO APAC website?

0 Upvotes | 0 Downvotes

0
VOTES

Anonymous • 29 Oct 2020 13:08 • ✓ ANSWERED

For future SIGMET tests, in cases where the NOC and ROC/RODB is non-compliant to IWXXM format and translation is conducted externally e.g. NZ for PIAWPS, will this go through NZ for PI states?

1 Comments:

Sue ORourke (AUS) • Allowed on 29 Oct 2020, 13:11 • Allowed

ICAO APAC MET/S & MET/IE WG may also need to consider how they start looking at SIGMET Tests and also OPMET Monitoring for the Performance Indicators for IWXXM.

0 Upvotes | 0 Downvotes

0
VOTES

Anonymous • 28 Oct 2020 13:30 • ✓ ANSWERED

If message size becomes more than limitation, the attached IWXXM file will be divided into several messages for message size? In such cases, how IWXXM data integrity would be secured?

2 Comments:

Pierre Kemmers • Allowed on 28 Oct 2020, 13:32 • Allowed

I don't believe this to be the case (but not sure). The IWXXM message will be rejected to be send over the link and the sender will be presented with an error message

0 Upvotes | 0 Downvotes

Anonymous • Allowed on 28 Oct 2020, 13:59 • Allowed

If Bandwidth of network is not enough, IWXXM data set can be distributed will be restricted.. Like geographical indication, or extended amount data.. Service might be limited due to allowance of the message size. When SWIM becomes available, these lmitations might not happen. but AMHS case. we might have limitation?

0 Upvotes | 0 Downvotes

0
VOTES

Shan • 28 Oct 2020 13:26 • ✓ ANSWERED

How many sessions could one ATN link(connections on application level) use? Or how many IWXXM messages could one ATN link send at the same time? Or disseminate one IWXXM message with one link?

0
VOTES

Kelepi Dainaki • 29 Oct 2020 13:16 • ✓ ANSWERED

For RODB that does not support IWXXM by 5th November, how will it continue to perform RODB function with other IWXXM RODB

1 Comments:

Pierre Kemmers • Allowed on 29 Oct 2020, 13:17 • Allowed

My take on this that we (RODB Brisbane) are RODB for TAC, but only a ROC for IWXXM

0 Upvotes | 0 Downvotes

0
VOTES

Renato Iannella (AUS) • 29 Oct 2020 12:51 • ✓ ANSWERED

Is there a mechanism to indicate that an IWXXM Extension must be understood by the consuming system? That is, the extension cannot be ignored as there are possible safety issues.

2 Comments:

BL Choy, Hong Kong China • Allowed on 29 Oct 2020, 12:54 • Allowed

Yes. There is indeed a directive in the extension part of the IWXXM schema requesting validators/parsers to have access to external schemas being used, otherwise it will return an error.

0 Upvotes | 0 Downvotes

BL Choy, Hong Kong China • Allowed on 29 Oct 2020, 12:57 • Allowed

This is also why a producer needs to think twice before producing an IWXXM message with extensions requiring external schemas. Downstream users will get an error when trying to consume the message if they cannot get hold of the schemas of the extension.

0 Upvotes | 0 Downvotes

0
VOTES

Kelepi Dainaki • 28 Oct 2020 11:17 • ✓ ANSWERED

For an incomplete TAC to IWXXM (Partial)translation, where does the error message send to if the ROBEX generated TAC bulletin is generated from a ROC noting that NOC is the originator of the TAC msg.

1 Comments:

Marco Kok • Allowed on 28 Oct 2020, 12:50 • Allowed

The error message should be sent to the TAC originator if it is confirmed that the incomplete translation is caused by invalid TAC format.

0 Upvotes | 0 Downvotes

0
VOTES

Anonymous • 27 Oct 2020 11:52 • ✓ ANSWERED

Are there any ICAO procedures or guidelines that any NOC has to follow if there is a need to request IWXXM translation services from ROC? If so, any template or predefined form that could be used?

1 Comments:

ICAO - Peter Dunda • Allowed on 27 Oct 2020, 12:19 • Allowed

Please refer to GUIDELINES FOR THE IMPLEMENTATION OF OPMET DATA EXCHANGE USING IWXXM (<https://www.icao.int/APAC/Pages/eDocs.aspx> > MET), including sections 6.3.1: Prerequisites for Translation Centres; and 6.3.7: Translation Agreement.

0 Upvotes | 0 Downvotes

0
VOTES

ROK-Dongeon Lee • 29 Oct 2020 12:28 • ✓ ANSWERED

Is there a qualification or any guide line to act as a translation centre?

1 Comments:

Marco Kok • Allowed on 29 Oct 2020, 13:08 • Allowed

We can refer to GUIDELINES FOR THE IMPLEMENTATION OF OPMET DATA EXCHANGE USING IWXXM (<https://www.icao.int/APAC/Pages/eDocs.aspx> > MET):

Section 6.3.1 - Pre-requisites for Translation Centres

Section 6.3.7 - Translation Agreement

0 Upvotes | 0 Downvotes

0
VOTES

Pongpob • 28 Oct 2020 12:50 • ✓ ANSWERED

Our system now sends out 2 body parts for IWXXM message, one as ATS headers with no msg and second as FTBP. Are ATS Headers needed for Basic AMHS with FTBP as originators/recipients

3 Comments:

Kentaro Tsuboi (Japan) • Allowed on 28 Oct 2020, 19:43 • Allowed

I remember it was discussed at the IWXXM workshop last year that IHE and FTBP should be used for the IWXXM exchange over AMHS.

0 Upvotes | 0 Downvotes

Patrick (Hong Kong China) • Allowed on 29 Oct 2020, 12:34 • Allowed

IWXXM messages should be exchanged using extended AMHS FTBP (single body part) with IPM Heading Extension (IHE). You may refer to ICAO document 'Guidelines for the implementation of OPMET data exchange using IWXXM'.

0 Upvotes | 0 Downvotes

Kentaro Tsuboi (Japan) • Allowed on 28 Oct 2020, 13:56 • Allowed

I understand your question. I have had the same question about difference between the extended AMHS and the Basic AMHS with FTBP. But I'm not sure how to deal with the case of the Basic AMHS with FTBP.

0 Upvotes | 0 Downvotes