



ICAO

*International Civil Aviation Organization*

**INFORMATION PAPER**

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

Virtual meeting, 22 to 24 March 2021

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**Agenda Item 4: Meteorological information exchange in digital form**

**THE PROGRESS OF IWXXM IN CHINA**

(Presented by China)

**SUMMARY**

This paper introduces the progress and the current situation of the IWXXM capability in China.

**1. INTRODUCTION**

1.1 Some progress in the implementation of IWXXM and AMHS network has been made by China last year.

1.2 This paper introduces the progress and the current situation of the IWXXM capability and AMHS network in China.

**2. DISCUSSION**

**AMHS Link and AMHS Address**

2.1 Beijing COMM Centre has upgraded its system to support the AMHS with FTBP.

2.2 And the AMHS lines with FTBP are connected with Hong Kong ROC and Bangkok RODB.

2.3 However, the bandwidth of the AMHS line with Hong Kong is just 64 Kb, and with Bangkok is 2Mb.

2.4 Beijing ROC had applied the AMHS address ZBBBYPYL, and asked Beijing COMM Centre for help to update the information in ICAO.

2.5 The full AMHS address for Beijing ROC is /CN=ZBBBYPYL/OU=ZBBB/O=HQ/PRMD=CHINA/ADMD=ICAO/C=XX/

2.6 The internal AMHS network in China are not ready, so Beijing ROC translates the TAC reports to IWXXM, and aggregates them to IWXXM bulletins for the exchange in the future.

**Agenda Item 4**

22-24/03/21

**IWXXM Exchange Test**

2.7 Two exchange tests were conducted with Hong Kong in Nov. and Dec. 2020. And the file size was about 10KB in light of the limited bandwidth.

2.8 The file size tested with Bangkok is lower than 6KB, considering the limitation of Bangkok. However, the IWXXM bulletins aggregated as ROBEX handbook will be larger than 6KB, especially for LT bulletins. Therefore, maybe the IWXXM bulletins exchange with Bangkok RODB could not be started unless the limitation problem is resolved.

2.9 Under the demand of the exchange of Space Weather Advisories, of which size is about 1KB, Beijing ROC asked Bangkok and Singapore RODBs for help to forward the SWAs.

2.10 Now the SWAs in IWXXM format could be disseminated to Bangkok, Singapore and Brisbane RODBs, routed from Bangkok RODB to Singapore RODB, and then from Singapore RODB to Brisbane RODB.

**Current Situation and Difficulties**

2.11 The bandwidth is the main bottleneck to attach large body part in the future. To solve this problem, Beijing COMM Centre is considering to rent the CRV network.

2.12 The EUR OPMET in IWXXM format could not be fully understood at present in Beijing ROC for lacking of reference materials and guidance with its IWXXM schema.

2.13 Although the brief chart of the AMHS network is shown in the IWXXM workshop last year, the current routing configuration of the whole AMHS network in ICAO APAC is not very clear.

2.14 We advise the meeting considering to coordinate or supply more references about the EUR IWXXM schema.

**3. ACTION BY THE MEETING**

3.1 Note the information contained in this paper.

3.2 Consider to coordinate or supply more references about the EUR IWXXM schema.

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