



ICAO

*International Civil Aviation Organization*

**INFORMATION 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, 16 – 20 November 2020

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**Agenda Item 5:** Research, development and other initiatives

**IMPLEMENTATION OF IWXXM AND TRANSLATION SERVICE OF THE  
REPUBLIC OF KOREA**

(Presented by the Republic of Korea)

**SUMMARY**

This paper presents the current status of implementation of ICAO IWXXM 3.0 and IWXXM translation service through the website.

**1. INTRODUCTION**

1.1 ICAO Amendment 79 to Annex 3 states that providing some weather information (METAR, SPECI, TAF, SIGMET, AIRMET, Space Weather Advisory Information, Tropical Cyclone Advisory and Volcanic Ash Advisory) in the ICAO Meteorological Information Exchange Model (IWXXM) format would become a standard as of November 2020.

1.2 This IP introduces the current status and update on the progress of IWXXM implementation and dissemination of weather information to users in IWXXM format in the Republic of Korea.

**2. DISCUSSION**

Development of IWXXM 3.0

2.1 In order to implement ICAO Amendment 79 to Annex 3, the AMO developed IWXXM version 3.0 and as of November 5 2020, METAR/SPECI, TAF, AIRMET, SIGMET in IWXXM format is generated.

2.2 Since AMO does not have a responsibility to issue VAA, TCA, SWXA, it has developed a process to receive and disseminate these advisories to users in the Republic of Korea.

2.3 AMHS with FTBP has yet to be set up in the Republic of Korea and IWXXM messages are not internationally distributed. AMHS is currently under development by the Korea Airports Corporation.

IWXXM Translation Service

2.4 IWXXM translation service is available through AMO’s website (<https://amo.kma.go.kr/eng>), which enables TAC format to be converted into IWXXM format. When a user input TAC format, messages are generated and displayed in IWXXM format.

2.5 The AMO also offers users METAR/ SPECI, TAF, SIGMET, AIRMET in IWXXM format through Open-API ([amoapi.kma.go.kr/amoApi](http://amoapi.kma.go.kr/amoApi)).

**Translation Program**

This is a page of automatic IWXXM translation program for METAR, TAF, SIGMET and AIRMET

Type

Type of Report	<input type="text" value="METAR"/>	Location indicator	<input type="text"/>
Time of the observation	<input type="text" value="2020-11-03"/> <input type="button" value="📅"/>	Identification of an automated	<input type="checkbox"/> Auto
Direction	<input type="text"/>	Speed	<input type="text"/>
Gust	<input type="text"/> <input type="radio"/> KT <input type="radio"/> MPS	Visibility	<input type="text"/>
The lowest visibility	<input type="text"/>	The lowest Direction	<input type="text"/>
Runway visual range	<input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/>		
present weather	<input type="text"/>		
Cloud	<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/>		
Cavok	<input type="checkbox"/> Cavok	NSC	<input type="checkbox"/> Nsc
Air Temperature	<input type="text"/> 0.1°C	Dew-point Temperature	<input type="text"/> 0.1°C
QNH	<input type="text"/> hPa		

**METAR Translation Page**

### Translation Program

This is a page of automatic IWXXM translation program for METAR, TAF, SIGMET and AIRMET

Type TAF Move

Type of Report	TAF	Location indicator	RKSI
Time of issue or forecast	300500 Z	Valid Time	2020-10-30

Change Group	Period	Wind Direction / Speed	CAVOK / Visibility	NSW	Weather	NSC	
	300 / 311	32 10 G	<input checked="" type="checkbox"/> 9999	<input type="checkbox"/>		<input type="checkbox"/>	
BECMG	300 / 300	15 9 G	<input type="checkbox"/> 9999	<input type="checkbox"/>		<input type="checkbox"/>	

Move

#### Message

Message

```
TAF RKSI 300500Z 3005/3111 32010KT
  BECMG 3006/3007 1509 9999 =
```

```
<iwxxm:TAF xmlns:aixm="http://www.aixm.aero/schema/5.1.1" xmlns:gml="http://www.opengis.net/gml/3.2"
  xmlns:iwxxm="http://icao.int/iwxxm/2.0" xmlns:metce="http://def.wmo.int/metce/2013"
  xmlns:om="http://www.opengis.net/om/2.0" xmlns:saf="http://icao.int/saf/1.0"
  xmlns:sams="http://www.opengis.net/samplingSpatial/2.0" xmlns:sf="http://www.opengis.net/sampling/2.0"
  xmlns:xlink="http://www.w3.org/1999/xlink" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" gml:id="taf-
  RKSI-202011031338Z" status="NORMAL" xsi:schemaLocation="http://icao.int/iwxxm/2.0
  http://schemas.wmo.int/iwxxm/2.0/iwxxm.xsd http://def.wmo.int/metce/2013
  http://schemas.wmo.int/metce/1.2/metce.xsd">
  <msgText>TAF RKSI 300500Z 3005/3111 32010KT
    BECMG 3006/3007 1509 9999 =</msgText>
```

### TAF Translation Page

### 3. ACTION BY THE MEETING

3.1 Note the information contained in this paper.

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