



ICAO BANGKOK UNITING AVIATION

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Implementation and Testing – Readiness of EUR Region

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Webinar on the implementation of IWXXM

27-29 October 2020





Operating Principles (1)

- Managing the Transition
 - Dedicated Group per Region beneficial (DMG* in EUR)
 - METP WG-MIE (Meteorological Information Exchange) to co-ordinate on a global level
 - Exchange with other regions depending on sufficient capacity of AMHS-links as well as usage of the same AMHS profile

* Data Management Group (DMG) of the Meteorology Group (METG) of the European Aviation System Planning Group (EASPG)

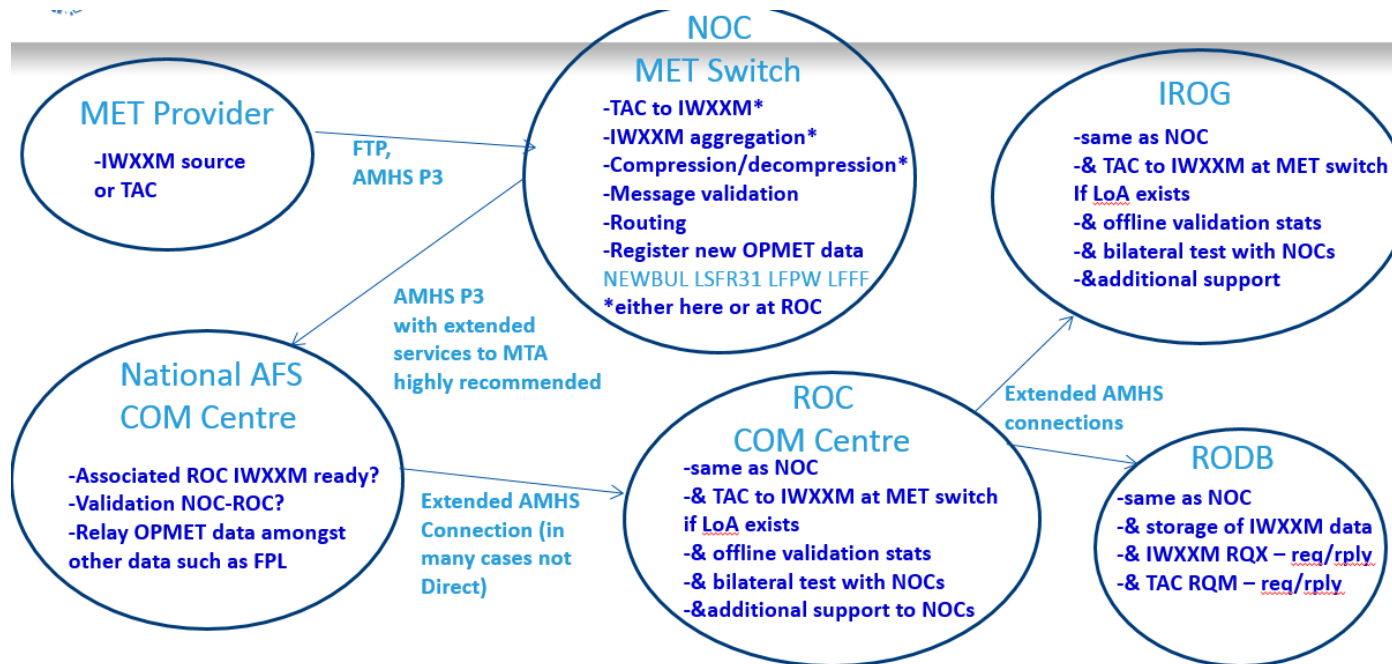


Operating Principles (2)

- Translation
 - Final target is to produce IWXXM at source
 - Translation shall only take place once to prevent different versions
 - No translation from IWXXM to TAC until 2026 (parallel phase)
 - Translation Centre and date/time of translation is included in IWXXM-message



General View





EUR ROCs

The 3 ROCs/IROGs

- IWXXM capable, no action undertaken on the data content (offline only, for statistics and monitoring only)
- Offer a translation facility for the States within their AoR (see later)
- Exchange all IWXXM between between the 3 Rocs
- Send all incoming IWXXM data to the EUR RODBs
- No I/R IWWXM exchange yet
- Coordination with the States within their AoR to define an IWXXM transition plan per ROC (see later)
- Bilateral Testing :
 - IWXXM-messages are operationally to be exchanged via ext. AMHS using FTBPs (File Transfer Body Parts)
 - Testing the good format of IWXXM-messages could also be done offline (FTP, TCP/IP-socket connection,..)



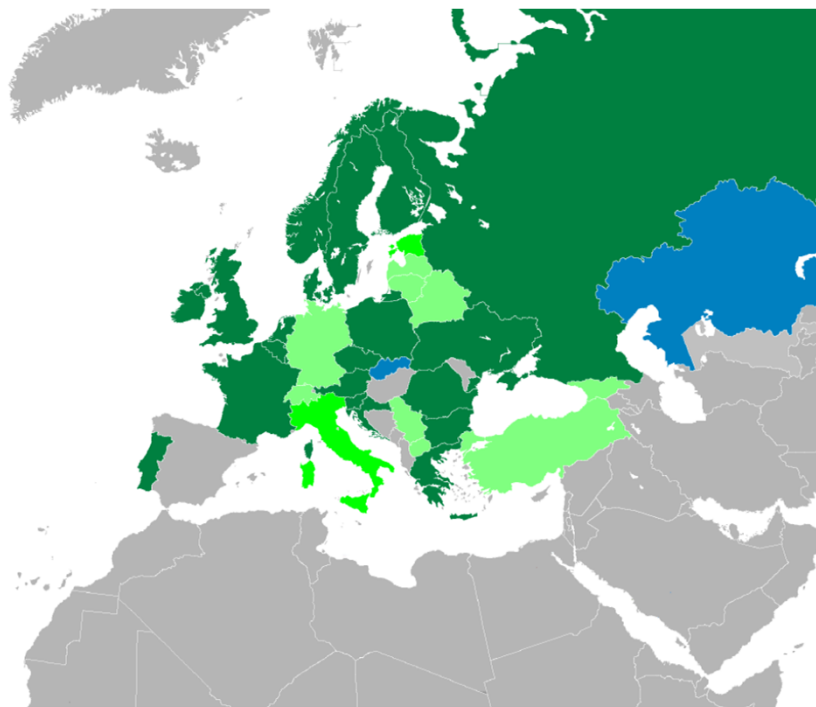
EUR RODBs

- RODB
 - IWXXM-requests use similar rules as for TAC
 - The 3 RODBs are IWXXM capable (IWXXM version 3 from winter 2020)
 - Answers may include operational as well as non-operational IWXXM-messages
 - In case no full AMHS-path available (non-delivery report received by databank) error reply may be sent in IA5-bodypart to user



EUR IWXXM Survey Results (2019)

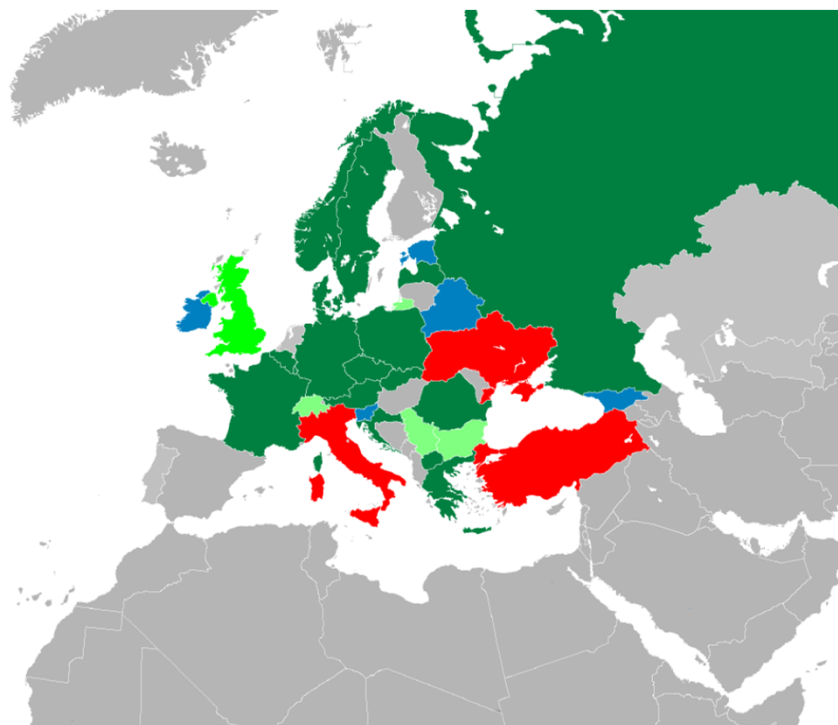
Does AFS COM-Centre plan to implement a subset of the extended ATSMHS that includes FTBP?



- FTBP support of at least 2 MB and selection in the AMC Application – Network Inventory already implemented
- FTBP support planned 2019
- FTBP support planned 2020
- No FTBP support planned
- No date provided



EUR IWXXM Survey Results (2019)

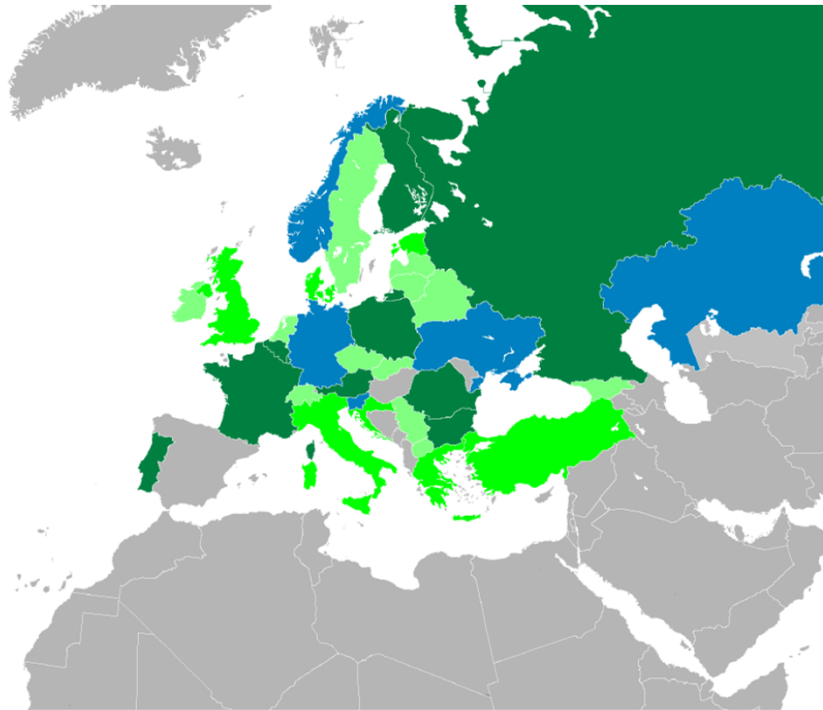


Will there be a direct ATS AMHS connection between your AFS COM-Centre and AFS COM-Centre of your ROC (EGGY, LFPW and/or LOWM)?

- Connection already in place
- Coordination already started and planned to be operational by end of 2019
- Coordination already started and planned to be operational by end of 2020
- No FTBP support planned
- Yes, but not coordination started



EUR IWXXM Survey Results (2019)

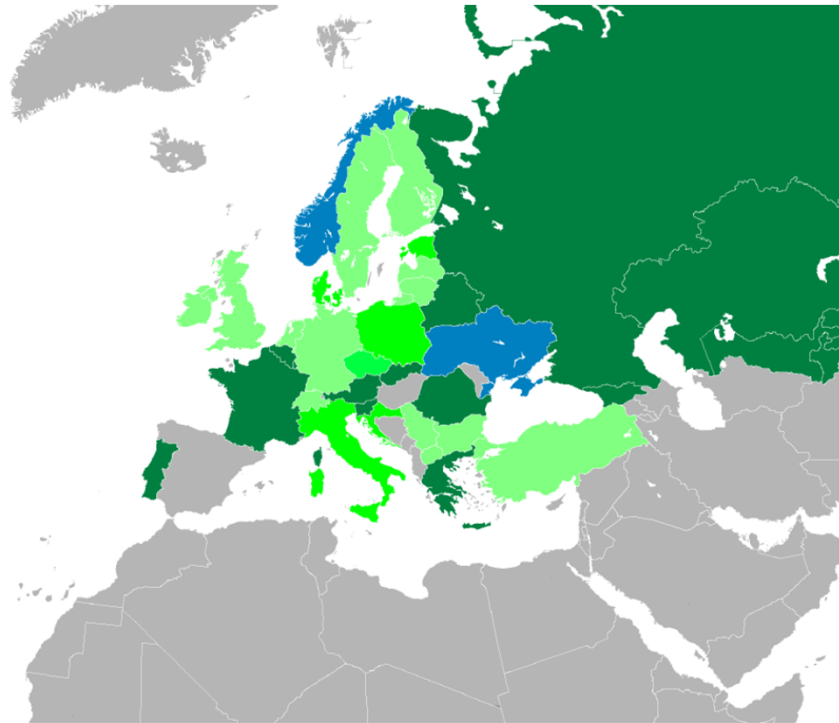


Does your MET-Switch system support a sub-set of extended ATSMHS including File Transfer Body Parts?

- FTBP support already in place between MET-Switch and national COM-Centre
- FTBP support planned between MET-Switch and national COM-Centre by end of 2019
- FTBP support planned between MET-Switch and national COM-Centre by end of 2020
- No FTBP support planned
- No date provided



EUR IWXXM Survey Results (2019)

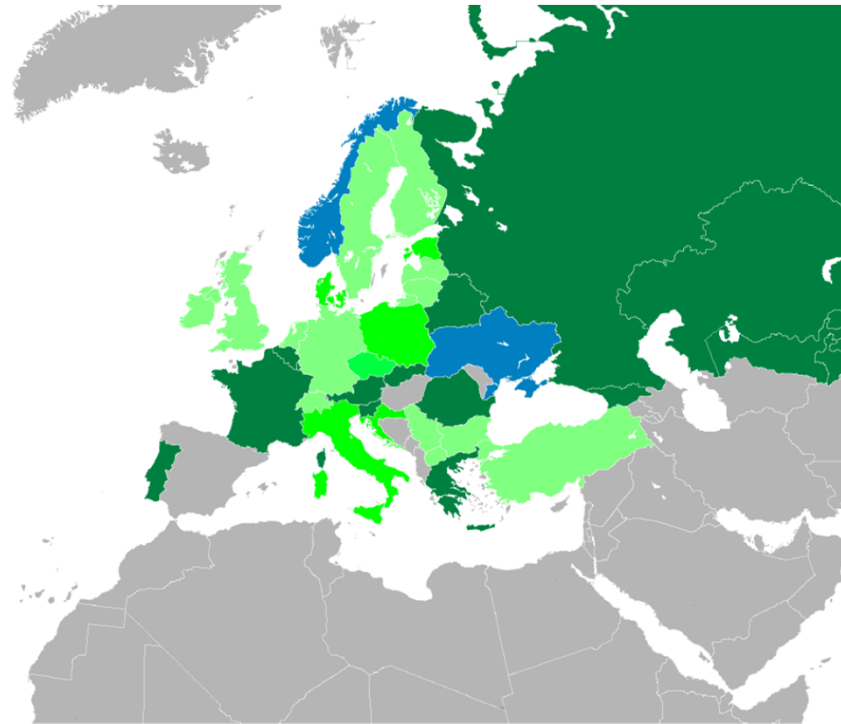


Will you provide national OPMET data (METAR) in IWXXM format?






- IWXXM METAR already available
- IWXXM METAR planned to be available by end of 2019
- IWXXM METAR planned to be available by end of 2020
- No
- No date provided



EUR IWXXM Survey Results (2019)

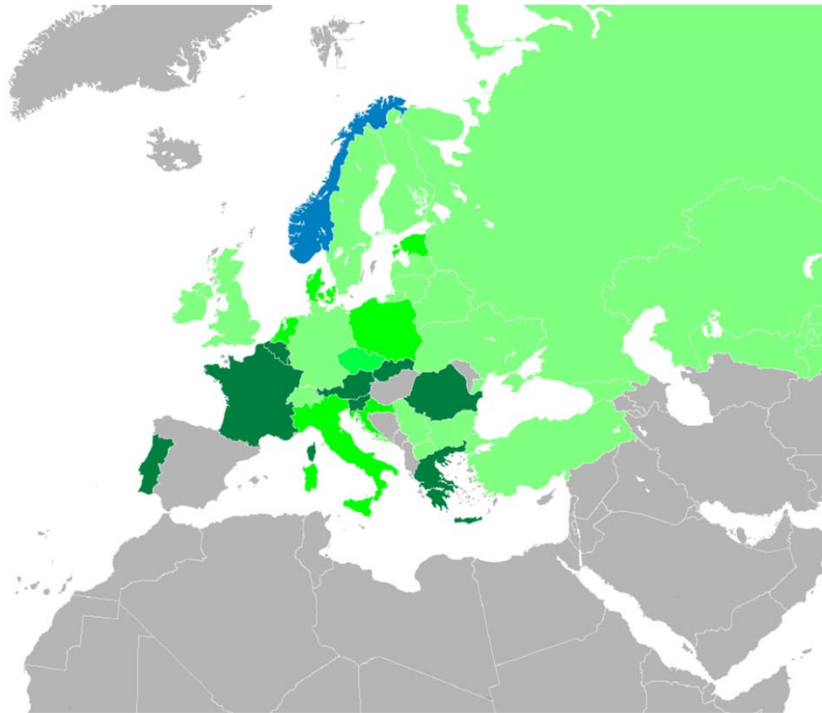


Will you provide national OPMET data (TAF) in IWXXM format?






-  - IWXXM TAF already available
-  - IWXXM TAF planned to be available by end of 2019
-  - IWXXM TAF planned to be available by end of 2020
-  - No
-  - No date provided



EUR IWXXM Survey Results (2019)

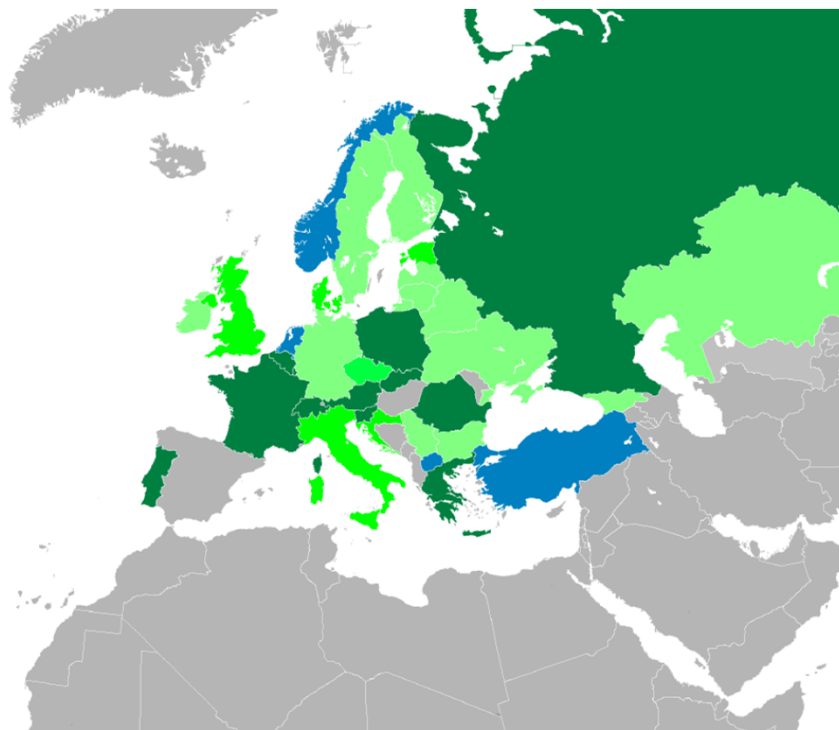


Will you provide national OPMET data (SIGMET) in IWXXM format?

-  - IWXXM SIGMET already available
-  - IWXXM SIGMET planned to be available by end of 2019
-  - IWXXM SIGMET planned to be available by end of 2020
-  - No
-  - No date provided



EUR IWXXM Survey Results (2019)



Will you be receiving OPMET data in IWXXM format?

- Receipt of OPMET data in IWXXM format already available
- Ready for receipt of OPMET data in IWXXM format by end of 2019
- Ready for receipt of OPMET data in IWXXM format by end of 2020
- No
- No date provided



ASBU - EUR-B1 – AMET: ENHANCED OPERATIONAL DECISIONS THROUGH INTEGRATED METEOROLOGICAL INFORMATION

Though not explicit in ICAO Doc 9750, the implementation of providing a suite of MET products (METAR/SPECI, TAF, SIGMET, AIRMET, TCA, VAA and SWXA) in IWXXM format is a prerequisite to the System Wide Information Management (SWIM) and a requirement during the ASBU-B1 time frame (requirement 5 November 2020). Therefore, these elements in IWXXM format will be measured in EUR ANP Volume III.

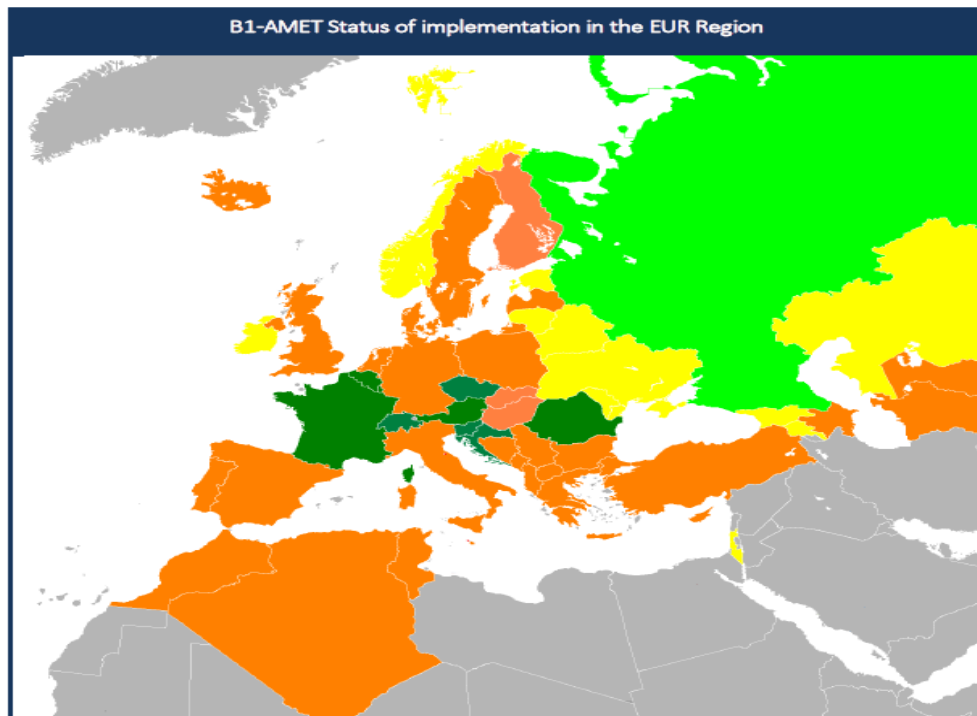
<i>Elements in IWXXM format</i>	<i>Applicability</i>	<i>Performance Indicators/Supporting Metrics</i>	<i>Targets</i>
METAR/SPECI	<i>States where METAR/SPECI is required as per the EUR ANP Volume II, Table MET II-2</i>	Indicator: % of relevant States having implemented METAR/SPECI in IWXXM format Supporting metric: number of relevant States having implemented METAR/SPECI in IWXXM format	100% by Nov 2020
TAF	<i>States where TAF is required as per the EUR ANP Volume II, Table MET II-2</i>	Indicator: % of relevant States having implemented TAF in IWXXM format Supporting metric: number of relevant States having implemented TAF in IWXXM format	100% by Nov 2020



SIGMET	<i>States who designated a Meteorological Watch Office to provide SIGMET for a FIR (or FIRs) as per the EUR ANP Volume II, Table MET II-1</i>	Indicator: % of relevant States having implemented SIGMET in IWXXM format Supporting metric: number of relevant States having implemented SIGMET in IWXXM format	100% by Nov 2020
AIRMET	<i>States who designated a Meteorological Watch Office to provide AIRMET for a FIR (or FIRs) as per the EUR ANP Volume II, Table MET II-1</i>	Indicator: % of relevant States having implemented AIRMET in IWXXM format Supporting metric: number of relevant States having implemented AIRMET in IWXXM format	100% by Nov 2020
VAA	<i>France, United Kingdom</i>	Indicator: % of VAACs in the EUR Region having implemented Volcanic Ash Advisories (VAA) in IWXXM format Supporting metric: number of States hosting a VAAC having implemented VAA in IWXXM format	100% by Nov 2020
TCA	<i>Not applicable in EUR Region</i>	N/A	N/A
SWXA	<i>Finland, France</i>	Indicator: % of Space Weather Centres in the EUR Region having implemented Space Weather Advisories (SWXA) in IWXXM format Supporting metric: number of States hosting a SPWXC having implemented SWXA in IWXXM format	100% by Nov 2020



EUR States (Status in Sep 2020)



Legend

- Completed
- Partially Completed (50%+)
- Translation Service used
- Not Started/Not Implemented
- Not Applicable
- Missing Data

The progress for B1-AMET is on-going (with approximately 37% implementation).

Note: These high-level implementation elements are not applicable to Andorra and San Marino.



EUR IWXXM ROCs Translation Agreement

METG/30 Decisions :

- That the ICAO Regional Director, Europe and North Atlantic, on behalf of the EASPG, undertake the necessary action to inform States that the EUR ROCs will allow an extension of IWXXM translation service to 4 November 2021 as provided in Appendix I to METG/30 SoD.
- That the ICAO Regional Director, Europe and North Atlantic, on behalf of the EASPG, undertake the necessary action to encourage States to provide input to the workbook on IWXXM implementation to their Regional OPMET Centres (ROCs) as provided in Appendix J to METG/30 SoD in order for the ROCs to efficiently assist States in implementing IWXXM:
 - a) before 7 October 2020 to support discussions during DMG/31; and
 - b) each time an evolution on IWXXM and AMHS capabilities occurs.



EUR IWXXM ROCs Translation Agreement

Request for TAC to IWXXM Translation Service	
To:	Choose an element from the list
CC:	ICAO Paris, Christopher Keohan (ckeohan@paris.icao.int)
Date of request:	Click to add a date.
State requesting service:	Click to enter state name.
MET-service requesting service:	Click to enter details on MET-service.
AIRAC-date to start service:	Click to add a date.
End of Service*:	Click to add a date.
<p><i>*Apart from the defined end-date, this agreement can be superseded by the State for any reason including being able to provide OPMET data in IWXXM via extended AMHS. The defined end-date should be the expected IWXXM implementation date.</i></p>	
Data to be translated and agreed headers for IWXXM-bulletins	
TAC-data	IWXXM-header
SAxxii CCCC	LAXxxii CCCC
SPxxii CCCC	LPxxii CCCC
ECxxii CCCC	LCxxii CCCC
ETxxii CCCC	LTxxii CCCC
WSxxii CCCC	LSxxii CCCC
WVxxii CCCC	LVxxii CCCC
WCxxii CCCC	LVxxii CCCC
WAxxii CCCC	LWxxii CCCC
<p>By signing this request, the State agrees and confirms to comply with ICAO ANNEX 3 regulations. It should also be acknowledged that translating SIGMET and AIRMET will be made possible if polygons are used to describe the lateral extents of a phenomenon, until further notice. The agreed headers will be brought to the attention of the METNO-focal point at least 4 weeks before the envisaged AIRAC-date to be included in the METNO-message.</p>	
Signature	
Name & Organisation of signing person	Click to enter Name and Organisation

States under ROC London (poc: Matthew.Wasmer@nats.co.uk)

- Belgium
- Denmark
- Estonia
- Finland
- Iceland
- Ireland
- Latvia
- Lithuania
- Luxembourg
- Netherlands
- Norway
- Sweden
- United Kingdom

States under ROC Toulouse (poc: patrick.simos@meteo.fr)

- Algeria
- Andorra
- France
- Gibraltar
- Italy
- Malta
- Monaco
- Morocco
- Portugal
- San Marino
- Spain
- Tunisia

States under ROC Vienna (poc: michael.pichler@austrocontrol.at)

- Albania
- Armenia
- Austria
- Azerbaijan
- Belarus
- Bosnia and Herzegovina
- Bulgaria
- Croatia
- Cyprus
- Czech Republic
- Georgia
- Germany
- Greece
- Hungary
- Israel
- Kazakhstan
- Kyrgyzstan
- Montenegro
- Poland
- Republic of Moldova
- Romania
- Russian Federation
- Serbia
- Slovakia
- Slovenia
- Switzerland
- Tajikistan
- The former Yugoslav Republic of Macedonia
- Turkey
- Turkmenistan
- Ukraine
- Uzbekistan



List of TAC to IWXXM ROC Translation Service Agreements – ICAO EUR Region (Updated 23 October 2019)

State	ROC	Start Date	Stop Date	Remarks
Estonia	Toulouse	5 Mar 2018	1 Jan 2025	ROC London will be capable in first half of 2020
Georgia	Vienna	24 May 2018	2 Jan 2020	Bulletins provided
Ireland	Toulouse	29 Mar 2018	31 Oct 2020	ROC London will be capable in first half of 2020
Lithuania	Toulouse	29 Mar 2018	2 Nov 2020	ROC London will be capable in first half of 2020
Moldova	Vienna	1 Mar 2018	31 Oct 2020	Bulletins provided
Norway	Toulouse	24 May 2018	20 Nov 2020	ROC London will be capable in first half of 2020



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(NACC) Office
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South American
(SAM) Office
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