

Collaboration in the development of IWXXM

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World Meteorological Organization

Organisation météorologique mondiale

WMO and ICAO roles in IWXXM

- Definition
- Development
- Delivery



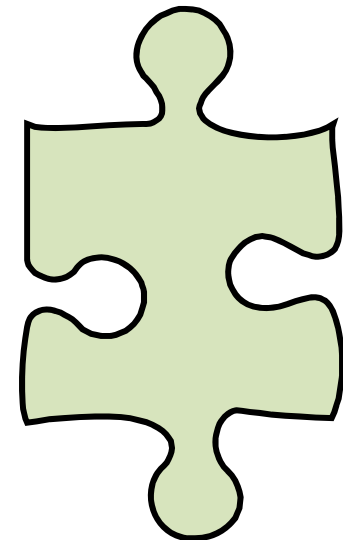
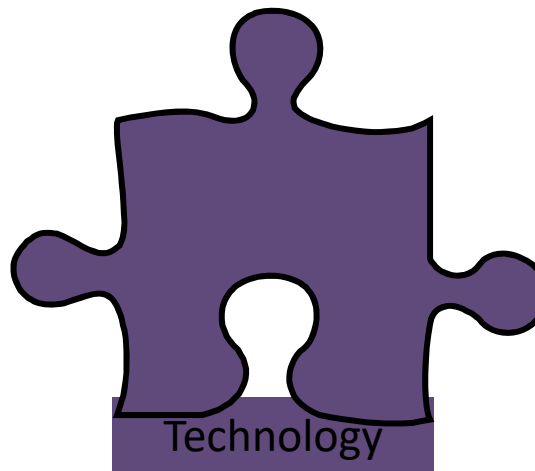
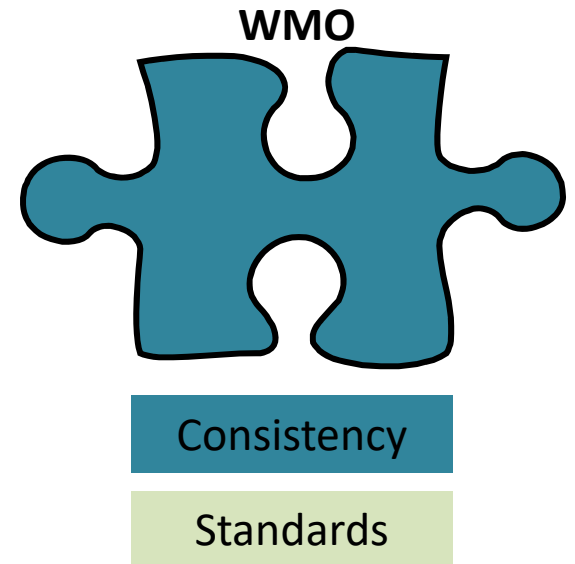
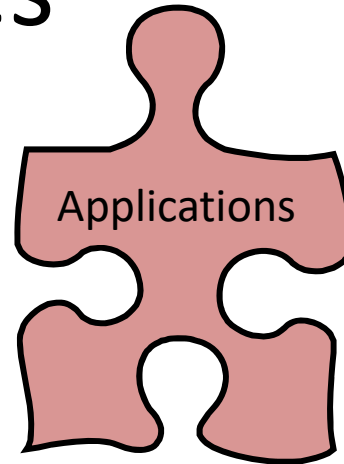
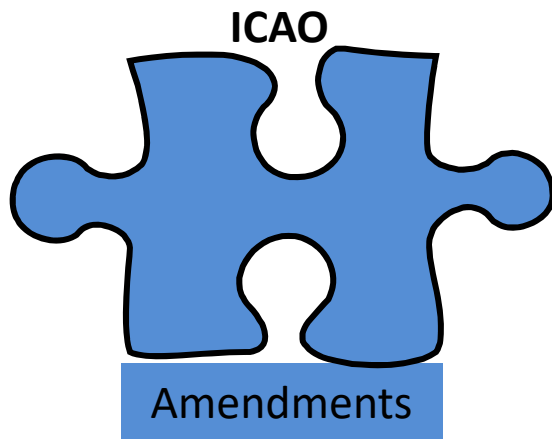
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DEFINITION OF IWXXM



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IWXXM changes



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IWXXM changes - ICAO

- Amendments
 - Rules on what has to be reported
- SWIM
 - Infrastructure used to deliver information

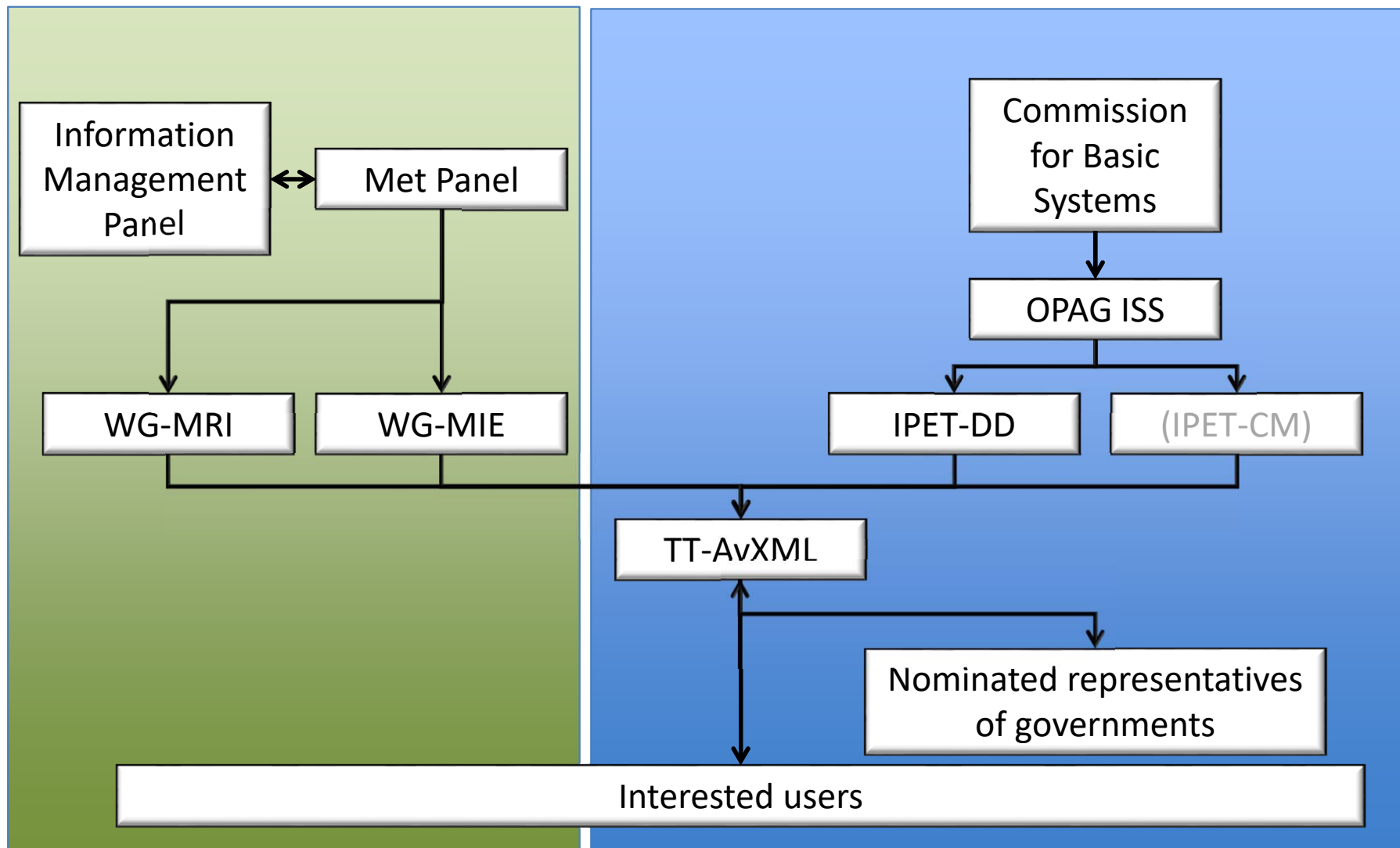
IWXXM changes - WMO

- Consistency
 - Compatible weather data for different applications
- Standards
 - Data representations, production, observing

IWXXM changes - external

- Application changes
 - Combine weather information with other types
- Technology changes
 - External standards evolve





OPAG ISS – Open Programme Area on Information Systems and Services
 WG-MRI – Working Group on Meteorological Requirements and Integration
 WG-MEI – Working Group on Meteorological Information Exchange
 IPET-DD – Inter-Programme Expert Team on Data representation Development
 IPET-CM – Inter-Programme Expert Team on Codes Maintenance
 TT-Av-XML – Task Team on Aviation XML

WMO approvals procedures

“Fast Track”
(simple)



“Between sessions”
(standard)



“At session”
(complex)

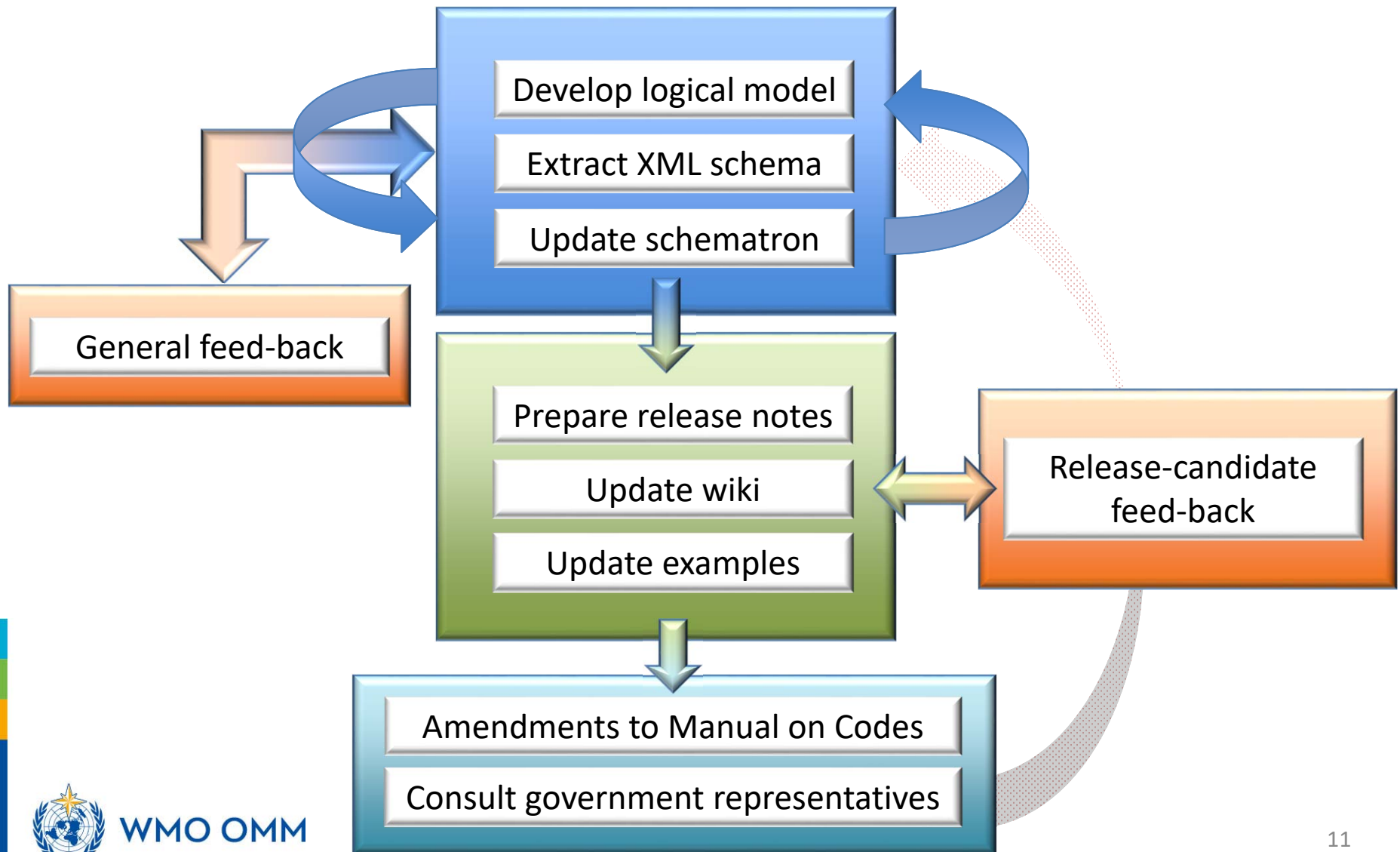


DEVELOPMENT

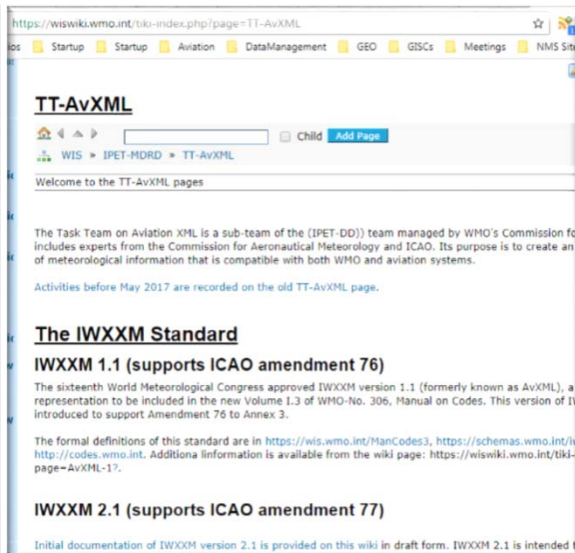
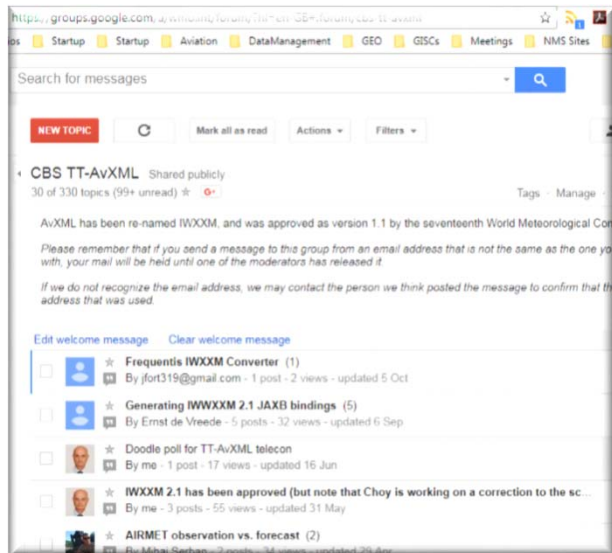


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TT-AvXML work flow



Consultations



Ongoing - public
Feedback Google Group
cbs-tt-avxml

Release candidate - public
<http://wis.wmo.int/page=TT-AvXML>
<http://schemas.wmo.int>
Feedback: Google group
(under consideration)

Intergovernmental
WMO Procedures



DELIVERY



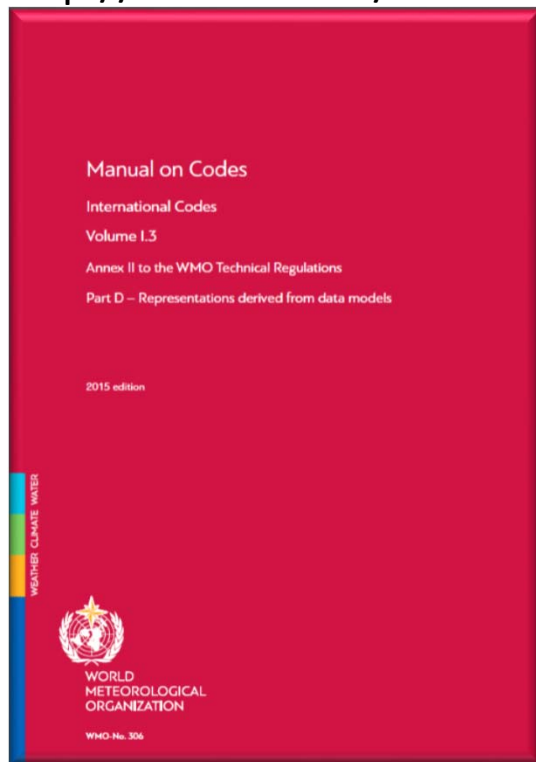
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Resources – formal definitions

WMO-No 306

Manual on Codes – vol I.3

<http://wis.wmo.int/ManCodes3>



Schema definitions

<http://schemas.wmo.int/iwxxm/2.1>

You are here: [./iwxxm/2.1/](#)

- [ReleaseNotes-IWXXM.txt](#) (12.29 KB)
- [TAC-to-XML-Guidance.txt](#) (8.18 KB)
- [airmet.xsd](#) (17.58 KB)
- [common.xsd](#) (20.35 KB)
- examples
- [gmliwxxm.xsd](#) (46.93 KB)
- html
- [iwxxm-collect.xsd](#) (509 B)
- [iwxxm.xsd](#) (2.35 KB)
- [measures.xsd](#) (2.52 KB)
- [metarSpeci.xsd](#) (47.85 KB)
- rule
- [sigmet.xsd](#) (22.17 KB)
- [taf.xsd](#) (17.22 KB)
- [tropicalCycloneAdvisory.xsd](#) (20.15 KB)
- [volcanicAshAdvisory.xsd](#) (20.15 KB)
- zip

ICAQ Meteorological Information Exchange Model

ICAQ Meteorological Information Exchange Model: Package diagram

Created: 11/22/2015 10:21 AM
Modified: 11/22/2015 10:21 AM
Project: ICAQ Meteorological Information Exchange Model

Release numbering for IWXXM

IWXXM

a

Major release

XML not
backwards
compatible

. b

Minor release

XML can be handled by
software for IWXXM

a.*.*

- new information
may be skipped

. c

Patch release

XML unchanged.

Such as:

- rule changes
- new code table
entries



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Time scales for IWXXM 2.1.1

IWXXM 2.1.1 is patch release to IWXXM 2.1 that:

- 1) Corrects validation issues that cause valid messages to fail validation
 - a) TAF: rules for CAVOK and cloud inconsistent
 - b) SIGMET: validation of TOP and ABV
 - 2) Fills in missing entries in Manual on Codes tables (administrative only)
- This patch release does not change the XML within a report.

Date	Event
15 November 2017	2.1.1 released <ul style="list-style-type: none">• Pre-operational• Formal WMO consultation starts
March 2018	Approval of IWXXM 2.1.1 by President WMO
May 2018	IWXXM 2.1.1 becomes “operational”

Time table for IWXXM 3.0

Date	Event
September 2017	Last opportunity for changes in requirements
Early December 2017	Issue document describing intended contents of 3.0
mid-December 2017	First draft Amd 78 received
1 April 2018	Test version (IWXXM 3.0 RC1) available for testing
1st September 2018 (optional release)	IWXXM 3.0RC2 schema
1 st December 2018	Approval procedure initiated for IWXXM 3.0 RC3.
March 2019	Final IWXXM 3.0 schemas available on the web with draft documentation
May 2019	IWXXM 3.0 released
Nov 2019	IWXXM 3.0 operational

Outline time table for IWXXM 3.1+

Date	Driver	Release
Nov 2019	Amd 78	IWXXM 3.0
Nov 2021	Amd 79	IWXXM 4.0 (or IWXXM 3.1 if IWXXM 3.0 permits backwards compatibility of releases) Initial support for SWIM environment.
Nov 2023	Amd 80	IWXXM 4.1 (or IWXXM 3.2 if IWXXM 3.0 permits backwards compatibility of releases)
Nov 2025	Amd 81	IWXXM 5.0 (or 4.0). Compatible with SWIM “data centricity” requirements.

Definition

Development

Delivery

cbs-tt-avxml@wmo.int

wis-help@wmo.int



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Thank you Merci



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