



ICAO PARIS

UNITING AVIATION

IWXXM-Implementation in the EUR/NAT-Region

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SWIM-Seminar 2026





Tasks and challenges of the Data Management Group

- Managing and Maintaining EUR ICAO Doc 018
- Monitor and optimize EUR/NAT OPMET **MET data** exchange
- Management of changes of OPMET data exchanged via AFS (METNO-procedure)
- Developing RODC-tool to automatize the METNO-procedure
- Maintaining the EUR RODEX and SADIS OPMET Catalogue
- Monitor and support IWXXM-implementation in the EUR-region
- Providing PI for the EUR eANP, Volume III in regard to the ASBU thread elements AMET B0 and AMET B1
- Developing a CONOPS for the transition from AFS to SWIM



IWXXM Implementation Status

- Updates to EUR eANP, Vol III
 - Currently 18 out of 52 (~35%) in the EUR/NAT-Region make use of Translation Agreements with ROCs.
 - Still the same as last year. Most reported to be capable end of 2026
 - States on deficiencies list are therefore
 - Algeria, Armenia, Azerbaijan, Belarus, Hungary, Iceland, Ireland, Kyrgyzstan, Latvia, Lithuania, Netherlands, North Macedonia, Tajikistan, Tunisia, Türkiye, Turkmenistan, Ukraine, Uzbekistan

IWXXM Statistics

Available IWXXM-Data (May 2026)

Availability of IWXXM-Data										Availability of IWXXM-Data (Percentage)									
Region	LA			LC			LT			Region	LA			LC			LT		
	ALL	RX		ALL	RX		ALL	RX			ALL	RX		ALL	RX		ALL	RX	
		AFS	SADIS		AFS	SADIS		AFS	SADIS			AFS	SADIS		AFS	SADIS		AFS	SADIS
AFI	75	14	0	2	0	0	69	8	0	AFI	75	18.67%	0%	2	0%	0%	69	11.59%	0%
ASI	207	135	0	0	0	0	202	139	0	ASI	207	65.22%	0%	0	0%	0%	202	68.81%	0%
CAR	133	4	0	0	0	0	129	2	0	CAR	133	3.01%	0%	0	0%	0%	129	1.55%	0%
EUR	707	552	0	243	184	0	460	365	0	EUR	707	78.08%	0%	243	75.72%	0%	460	79.35%	0%
MID	60	44	0	0	0	0	54	18	0	MID	60	73.33%	0%	0	0%	0%	54	33.33%	0%
NAM	624	0	0	1	0	0	609	0	0	NAM	624	0%	0%	1	0%	0%	609	0%	0%
NAT	7	6	0	0	0	0	7	6	0	NAT	7	85.71%	0%	0	0%	0%	7	85.71%	0%
PAC	25	11	0	0	0	0	25	13	0	PAC	25	44%	0%	0	0%	0%	25	52%	0%
SAM	86	0	0	0	0	0	86	0	0	SAM	86	0%	0%	0	0%	0%	86	0%	0%
ALL	1924	766	0	246	184	0	1641	551	0	ALL	1924	39.81%	0%	246	74.8%	0%	1641	33.58%	0%

Column „ALL“ gives the number of required reports as defined in the ANPs (Volume II, MET-Table II-2)



IWXXM-data exchanged on the Average/day 10.06.-16.06.2026

Type	Messages	Datasize (uncompr.)
LA	19.183	~255,5 MB
LP	1.119	~ 6,1 MB
LC	1.363	~ 13,9 MB
LT	1.862	~ 30,9 MB
LS	602	~ 3,7 MB
LV & LY	10	~ 0,06 MB
LW	68	~ 0,4 MB
LU/LK/LN/LM	19	~ 0,16 MB
Summed-up	24.226	~ 310,72 MB

IWXXM Statistics

Used IWXXM-Version - 2026

Monitored IWXXM-Versions					
	All	3.0	2021-2	2023-1	2025-2
LA (METAR)	1442	438	463	197	344
LP (SPECI)	248	59	58	19	112
LC (Short-TAF)	344	130	53	66	95
LT (Long-TAF)	809	279	204	83	243
LS (SIGMET)	67	12	15	12	28
LV (VA SIGMET)	3	1	1	0	1
LY (TC SIGMET)	2	1	0	0	1
LW (AIRMET)	21	4	6	5	6
LU (VA Advisory)	2	0	0	0	2
LK (TC Advisory)	1	1	0	0	0
LN (SWX Advisory)	0	0	0	0	0

- Still IWXXM 3.0 is used the most
- IWXXM 3.0 & 2021-2: +/- 62%
- Since 27.11.2025 only 2023-1 & 2025-2 supported by WMO
 - LA: 1,1% ➔ 37,5%
 - LP: 4,0% ➔ 52,8%
 - LC: 0,0% ➔ 46,8%
 - LT: 2,0% ➔ 40,3%
- Operational usage of IWXXM currently very low

- **Mid-term goal** : only one version allowed in operation



Splitting up IWXXM-Aggregations

- In 2024 we identified that SADIS FTP and API split aggregations in single messages
- DMG supports that this is done for all IWXXM aggregations
i.e. distribution of single report IWXXM messages via AFS
 - More SWIM like
 - No risk to change due to only few IWXXM users
 - Will increase the needed bandwidth as compression works better the bigger the file is



Splitting up IWXXM-Aggregations

Example Aggregation vs Single Messages:

LAOS31 LOWM ~ 48/day plus BBBs → One Aggregation 21k - 33k → ~ 1.3MB/day

Single IWXXM-Messages:

LAOS31 LOWx 6x48/day plus BBBs → One Message 3,2k - 7,2k → ~1.5MB/day

+15,4%

Example for small size reports:

LAOS31 LOWM 181820 → 23.488 byte

Single messages summed up → 27.220 byte

+15,9%

Example for big size reports:

LAOS31 LOWM 040620 → 32.953 byte

Single messages summed up → 37.112 byte

+12,6%



Splitting up IWXXM-Aggregations

- February 2026 ROCs sent mail to all NOCs asking for their willingness to split IWXXM-messages
- Results

Changed	17
Plan to change	12
Under discussion / additional guidance needed	10
No plans yet	4
No answer received	9



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THANK YOU