

REPORT OF THE DATA MANAGEMENT GROUP

TWENTYSEVENTH MEETING

(Copenhagen, 4-6 June 2019)

The twenty-seventh meeting of the Data Management Group was held from 4 to 6 June 2019 in the premises of Naviair - Copenhagen, and was attended by the following participants:

List of participants

Mr. Michael Pichler	Austria
Mr. Wim Demol	Belgium (vice-Chairman)
Mr. Per Moeller Jensen	Denmark
Mr. Patrick Simon	France (Chairman)
Mr. Laurentiu Brojboiu	Romania (Secretary)
Mr. Matthew Wagner	United Kingdom
Mr. Christopher Keohan	ICAO Paris
Mr. Igor Arestov	Russian Federation
Mr. Sergei Grabko	Russian Federation
Mr. Aleksandr Ivashev	Russian Federation

Agenda Item 1: Adoption of the provisional agenda

The DMG chairman noticed the absence of representation from Algeria for the meeting, and invited ICAO to recall the DMG participating States that their participation to all DMG meetings is mandatory.

The group discussed on the provisional agenda and adopted it as follows:

1. **Approval of the Agenda**

- WP01 – Agenda

2. **Approval of the DMG 26 report & Actions from previous meetings**

Draft Report DMG26 & DMG26 actions list

3. **Information from other groups**

ICAO

EUR: EANPG, COG, METG, AFSG, AFSG/PG, VA , PT/EAST

- IP03 - PT/EAST Outcomes (Austria)

Global Groups

WG-MIE , MOG/SADIS, IMP, METP

- WP05 - WG-MIE/5 meeting outcome (France)

WMO

TT AvXML

4. **IWXXM action plan**

Consider development of implementation table based on information from METNO

IWXXM Actions and coordination

- ROC plans
- RODBs plans
- Other regions
- testing AMHS
- EUR procedures & DOC018

- WP03 - Plan for IWXXM Implementation Workshop in the EUR Region (ICAO)
- WP14 – Update of Doc033

DOC 033 (Guidelines on IWXXM transition in the EUR region)Status of translation centre agreements for IWXXM**5. OPMET Data Monitoring results, action plans & PHP**

- WP06 - PHP report (UK)
- WP15 – DMG OPMET Data Catalogues v.0 (Belgium)

Monitoring of OPMET data for AOP aerodromes, following PHP actions or action plans

Systematically wrong formatted/coded OPMET data

Routing problems

Missing data

Maintain and update a Database for agreed exchanged non AOP airports OPMET data

- WP07 - OPMET Catalogue update (UK)
- WP08 - Location, States, Regions (UK)

Co-ordinate with Space Weather Advisory Centres to obtain knowledge about the headers that will be used for SWX-advisories and discuss a possible participation at the DMG Warning Monitoring Exercises.

6. Performance indices & Volume III – MET OPMET implementation

Implement Performance Indices for including availability and timeliness of OPMET data for AOP aerodromes and FIR/UIR on AFTN/AMHS and SADIS as per eANP Vol III;

- WP02 - Draft EANP Vol III – B0 & B1 – AMET (ICAO)
- WP04 - Status of special air-report implementation (ICAO)

Assist MET Service providers in the EUR region, by implementing the appropriate tools to present indices about timeliness and availability

7. Possible creation of a 4th ROC

Provide a full transition plan to be finalized for METG/29 to assist the creation of a ROC in Moscow, including testing and implementing of AMHS connections between Moscow and the three ROCs.

Define, in co-ordination with PT/EAST, the content of the State Letter asking if their State accepts being under the Area of Responsibility of ROC Moscow;

Present a consolidated WP that informs about the status of the transition and possible outstanding actions for states in the area of responsibility of a possible new ROC Moscow.

- WP16 - AMHS-IWXXM-Interop-Test-LOWM-UUUJ
- IP02 – NOC Moscow OPMET exchange using AMHS

8. RODEX

ROC Back-up procedures/ contingency arrangements

London → Toulouse

Toulouse → Vienna

Vienna → London

- WP13 - New Ideas RODEX-Backup (Austria)

Coordination with other regions

- WP05 - METNO_Procedure_Coordination (France)
- WP09 - APAC bulletins and Regional bulletin change update (UK)
- WP11 - Distribution of METNO messages (Belgium)

RODC

RODB

- WP10 - RODB request monitoring (Belgium)
- WP13 – New ideas RODEX backup
- IP01 - Brussels EUR OPMET DB updates (Belgium)

9. EUR Documents

DOC 018 Handbook (outside IWXXM under Agenda 5) including Consolidated set of timers values

- WP12 - Update EUR Doc 018 (Austria)

10. SWIM

Outcomes of SWIM/PT

- IP04 – PT/SWIM Outcomes

SWIM Plan

- ROC plans
- RODBs plans
- coordination with other regions
- EUR procedures & DOC018

Participate in the development of a regional implementation plan which may include regional/interregional workshop(s) and liaise with SWIM PT in support to the development of the SWIM implementation plan

11. Next meetings

DMG 28: October 2019, Brussels/Norway (TBC)

DMG 29: March 2020, TBD

DMG 30: June 2020, TBD

12. AOB

Agenda Item 2

Adoption of DMG26 Report

The group reviewed and approved the DMG26 report, including the comments and updates.

Actions from the previous meetings

The group reviewed the status of the actions established at the DMG26 meeting. The completed tasks were erased from the list (highlighted in yellow; see comments).

List of actions resulted after DMG26

Id	Action	Responsible	Target date
	DMG22		
DMG22-8-2	Clarify with the National AMHS Centre the issues related to the implementation of the backup procedure (responsibilities, time schedule, etc)	P. Simon	DMG28
	DMG23		
DMG23-5-4	Contact the centres in ROC Viena AoR, asking to review their list of requested warning data	M. Pichler	DMG26
	DMG24		
DMG24-3-4	Inform DMG25 on the status of implementation of 24-hour TAF for UTDD by Tajikistan	Russian Federation	DMG28
	DMG25		
DMG25-5-1	Assess the best way of determining the transit time of a message through the network	M. Pichler	DMG/28
DMG25-5-2	Check with the AFSG-PG whether (and what) statistics on IWXXM data volume are needed	P. Simon	Nov 2018
DMG25-8-1	IP for METG29 to describe the current distribution of the METNO messages	Belgium	DMG27
DMG25-8-5	Confirm the availability of the test systems, will inform on the address to be used and will take the necessary actions to perform the test	ROCs Vienna and London NOCs Bucharest and Copenhagen	DMG27
DMG25-8-6	Agree on the format of the routing tables and the frequency of updates and will start exchanging the tables	ROCs	DMG26
DMG25-10-1	Investigate with the other regions on the AMHS (extended) availability or the existence of corresponding implementation plans	ROCs	DMG26
	DMG26		
DMG26-2-1	C. Keohan will clean-up the known errors from table GEN I-1 in eANP vol. I and provide it to H. Swinnen to use it as a reference against the monitored usage of FIR names in SIGMET messages. The differences will be updated in the table related to SIGMET format in eANP vol. III and the States concerned will be informed to address the issues.	C. Keohan H. Swinnen	DMG27
DMG26-2-2	Check the possibility to distribute the METNO messages on SADIS.	ROC London	DMG27
DMG26-4-1	Provide updates to the IWXXM status of implementation in EUR Region. At DMG27, C. Keohan will present the updated picture	DMG members	METG29

DMG26-4-2	The ROCs will regularly inform ICAO on the necessary updates to the current status of implementation of IWXXM exchange in their AoR	ROCs	Permanent
DMG26-4-3	Work on tests that need to be performed for IWXXM distribution using AMHS, WP to DMG27	Austria, Denmark	DMG27
DMG26-4-4	Provide ICAO the technical details to be included in the ICAO State letter regarding support of AMHS and FTBP capabilities. The draft will be sent to AFSG and its sub-groups for review prior to regional distribution	J. Watts	March
DMG26-5-1	ROC London will verify the routing to ROC Toulouse and ROC Vienna for the messages not received by those.	ROC London	DMG27
DMG26-5-2	Coordinate with Singapore to check the routing and solve the multiple transmissions to EUR	ROC London	DMG27
DMG26-5-3	Analyze the warning monitoring results of the Feb 2019 exercise and take appropriate actions to solve the routing problems within their AoR	ROCs	DMG27
DMG26-5-4	Contact the Tajikistan representative during PT/EAST meeting in an attempt to solve ticket 1084. If not possible, address the issue through ICAO Paris	M. Pichler	May
DMG26-5-5	France will close tickets 1122, 1126 and 1139 and Denmark will close ticket 1142	P. Simon P. Jensen	DMG27
DMG26-5-6	Change the status from "Logged" to "Wait" for tickets that work has been started on	ROCs	DMG27
DMG26-5-7	EUR Doc 018 (OPMET Hdbk) will be updated with regard to values of thresholds used for METAR and TAF timeliness (par. 2.2.7 and 2.2.8).	M. Pichler	DMG27
DMG26-5-8	Derive new monitoring stats based on the agreed timeliness threshold values	M. Wagner	DMG27
DMG26-5-9	Use of Feb 2019 Monitoring Work-packages to verify whether data coming from their area of responsibility are correctly registered according to the procedure.	ROCs	
DMG26-5-10	Use the 2019 monitoring work-packages to address issues related to availability, routing and synchronization of AFS-SADIS-WIFS	M. Wagner	DMG27
DMG26-6-1	For States reported with OPMET Performances below the thresholds, provide details regarding the corresponding aerodromes to ROCs and issue PHP tickets	H. Swinnen ROCs	April
DMG26-6-2	Update the results for SIGMET format compliance based on results from the Feb 2019 monitoring exercise.	P. Simon	DMG27
DMG26-8-1	Cross-check to verify the principles for deriving the EUR Region and SADIS OPMET Catalogue and the corresponding output. The result will be presented to MOG to see whether it correspond to their needs	M. Wagner H. Swinnen	MOG
DMG26-8-2	Send to M. Pichler their comments/observations related to the DMG-website (in particular for the IWXXM section).	DMG members	DMG27
DMG26-9-1	Review the proposed changes to EUR Doc 018 and will send their comments to M. Pichler	DMG members	April

Actions DMG25-5-2 and DMG25-10-1 were closed. New actions were derived on these subjects:

Action DMG27-2-1: DMG will contact AST Task Force to clarify which coordination is needed on the foreseeable increase in data volume exchange in relation with introduction of IWXXM.

Action DMG27-2-2: DMG will check with AST TF whether they could investigate with the other regions on the AMHS (extended) availability, or the existence of corresponding implementation plans.

Agenda Item 3: Information from other groups

PT/EAST Meeting

C. Keohan and M. Pichler presented to the group two IPs (IP03 and MIR PTEAST19) highlighting some of the outcomes important for the DMG activities that were concluded after PT/EAST19 meeting – 29-31 May 2019, Chisinau, R. Moldova. These included:

- MET Deficiencies in the EUR Region
- SIGMET coordination
- Space weather
- New ROC Moscow

WG-MIE/5 meeting outcome

P. Simon provided to the group a short verbal information on the main outcomes of last MIE meeting that have connection with DMG domain.

Agenda Item 4: IWXXM Action Plan

WP03 - Plan for IWXXM Implementation Workshop in the EUR Region

C. Keohan presented to the group details related to the IWXXM Implementation workshop planned to take place at the ICAO EUR/NAT RO Paris, 5-6 November 2019. There were presented the workshop convening letter and agenda. The group was also informed that the latest presentations on this subject are published on the ICAO portal section DMG, and the group was invited to review and update the presentations as necessary.

Action DMG27-4-1: DMG members review and update the IWXXM presentations, in preparation of IWXXM workshop in Nov 2019

WP14 – Update of the EUR Doc 033

P. Simon informed DMG that the global group WG-MIE had been working during the last 12 months on various items including some re-wording and updates which results in a new version of the global guidelines document for implementing IWXXM data exchange. The group was also presented the proposed modifications to the EUR region in its DOC 033, in order to keep it aligned as much as possible to the global template. The group discussed in detail these modifications and agreed on the proposed update of DOC033.

Agenda Item 6: Performance indices & Volume III – MET OPMET implementation

WP04 - Status of special air-report implementation (ICAO)

C. Keohan presented to the group the current status of special air-report dissemination implementation, as resulted from the monitoring performed at ROC Toulouse for 1st January – 30 April 2019. The results were compared to those from the 2018 monitoring and it was noted a slight improvement. For Turkey it was noted that, although a test message was received during the Feb monitoring exercise, no real special air-report was received though, such that there is still work to be done for solving the problem.

The document will be converted into a METG working paper and presented by ICAO at METG29, in order to assist States on improving the dissemination of special AIREPs.

WP02 – Draft eANP vol. III – B0 and B1 AMET

C. Keohan presented for review by the group the draft eANP vol. III tables pertaining to ASBU B0 and B1 – AMET. The group noted the need for updating the coloured tables in App. B with the results from the Feb. 2019 monitoring. The charts need to be updated to show Belgium and Romania in dark green. For the EUR Region, a target of “98% of the States compliant” is proposed for ASBU B0 – AMET implementation. The updated document will be presented to be endorsed by METG29. It was also mentioned again the need that the ROCs assist the States in their area of responsibility to identify the possible causes for not meeting the availability and timeliness thresholds, and apply the necessary measures for remedying the deficiencies.

Agenda Item 5: OPMET Monitoring Results and Action Plans

WP06 – PHP Report

M. Wagner presented to the group the current status of the opened PHP tickets, with the main focus on differences since DMG26. The current picture will be presented to the METG29 meeting, highlighting the progress recorded since last METG meeting.

France informed that ROC Toulouse will work during this summer to address most of the corresponding issues related to its AoR.

WP07 – OPMET Catalogue Amendment

M. Wagner presented an addition change made to the OPMET Catalogue structure, meant to illustrate the available data per ICAO Regions (following a request coming from the MOG SADIS).

WP08 – Location, States, Regions

In this paper, M. Wagner pointed out issues related to using different sources for location, state and region when deriving the catalogue. Following the latest version of the catalogue, there were recorded requests to correctly assign some locations from Portugal to the corresponding ICAO Regions. With this occasion there were spotted inaccuracies in the ICAO documentation. The paper proposed the use of one single data source, and that the ICAO documentation be updated.

WP15 – DMG OPMET Catalogue

W. Demol (on behalf of H. Swinnen) presented a number of issues related to deriving the OPMET Catalogue by DMG. It was pointed out that DMG OPMET data catalogue should be based on formal information sources / references and that the ICAO Information sources should be aligned.

The ICAO Doc7910 and ICAO Doc7754 eANP applied nomenclature should be aligned: eANP Station names and State names may vary because of language, character set, spelling, special characters such as punctuation marks, (non-)printable control characters.

Taking into account issues presented in WPs 7, 8 and 15, the following actions were concluded:

Action DMG27-5-1: UK and France will check with the MOG on the possibility to have an official reference document providing information about the ICAO region of each location entry in Doc 7910.

Action DMG27-5-2: M. Wagner and H. Swinnen will prepare a paper to be presented at METG29 showing the current version and structure of the catalogue and highlighting the spotted issues related to reference documentation used. The paper will also include information on the frequency of updates to the catalogue and the place where it will be published.

Agenda Item 7: Possible creation of a 4th ROC

IP02 – Progress implementing OPMET Data exchange by NOC Moscow using AMHS

Russian Federation informed the group on the steps made for establishing and testing AMHS connections between NOC Moscow and three ROCs:

- Successful implementation of AMHS link between MET COM Center Moscow (UUUJ) and COM Center Moscow (UUUU)
- Testing the exchange of IWXXM-data between Moscow and Vienna.

The group was informed on the outcome of the tests and the future actions for eliminating the identified objections.

Details related to the test itself were presented in WP16 below.

WP16 - AMHS-IWXXM-Interop-Test-LOWM-UUUJ

In the attachment A to the WP, M. Pichler presented to the group the test document covering the technical details like test configuration setup, test scenarios, addresses used, data to be exchanged, etc. The group appreciated the structure and content of the test document and considered beneficial to recommend using a similar format for future testing of IWXXM exchange in the Region.

The main part of the WP presented also the outcome of the tests, considered successful apart from some non-restrictive findings. Similar tests will be carried on during the next period, to ensure identified objections were eliminated.

IP05 – Possible ROC Moscow

M. Pichler informed the group on the WP presented on behalf of DMG to PT/EAST19 meeting, describing the status with the implementation of ROC Moscow and the corresponding work packages.

During discussions it was stressed again that, in the perspective of creation of the new ROC, there will be mandatory to have a representation from ROC Moscow to the DMG meetings and activities.

Agenda Item 8: RODEX

IP01 - Brussels EUR OPMET DB updates

W. Demol presented two new functionalities that were recently added to the Brussels RODB, namely the availability of Special AIR-Reports and Space Weather Advisories. There were detailed the aspects related to storage of these data types and the possibility for requesting those.

Regarding space weather information, P. Simon informed on the intention to present a WP to METG29 on the current situation for distribution of space weather information, so States decide and make necessary arrangements on how to make use of these information.

WP10 – RODB Request Monitoring

W. Demol presented the results of the monitoring exercise for RQM messages received by OPMET databanks Brussels and Vienna (1-3 May 2019). No misuse or abuse was recorded. The number of requests decreased, showing improvement of regular distribution at both regional level and inter-regional. Taking into account the good results recorded, it was questioned whether the monitoring should continue. It was agreed that the monitoring be performed for one more year and a decision will be taken afterwards, based on the new results.

WP13 – New Ideas for RODEX Back-up

M. Pichler presented to the group a proposal for the back-up procedure. That was based on the usage of SADIS FTP as a fall-back. During discussions, there were expressed doubts related to relying only on Internet based services during the outage. There was no agreement reached on the presented proposal. New proposal is expected to be discussed during the next DMG meetings.

WP11 – METNO Messages Distribution

W. Demol presented to the group the current schema for distribution of METNO messages, both via AFS and via e-mail. It was agreed that the information should be included into the DMG report for METG29.

WP09 – ASIA/PAC Bulletin Changes

M. Wagner presented specific cases where changes in bulletin composition had led to missing data that were required in the EUR Region. The cause – bulletin changes – was identified only when requests were made for the missing data. It was therefore considered important to notify changes of OPMET data between regions.

Related to same subject, *WP05 - Harmonisation of METNO Procedures between ICAO Regions* presented by P. Simon described that the necessity for inter-regional coordination was also addressed at WG - MIE-5, where had been agreed to invite APAC and EUR to harmonise the METNO procedures in both regions. Issues to be aligned included the need for an extra AIRAC cycle for announcing changes, and inclusion of validity periods for TAF announcements.

DMG members agreed to proceed further with coordination with ASIA/PAC region in the alignment of the two METNO procedures (confirmation needed from H.Swinnen on the feasibility of proposals).

Agenda Item 10 – SWIM

IP04 – PT/SWIM Outcomes

C. Keohan made a succinct presentation on the proposal for structuring the work of SWIM Project Team. There were highlighted the 5 main tasks and the proposed standing agenda.

Agenda Item 9 – EUR Documents

WP12 – Review Doc 018

M. Pichler provided the draft version of the Handbook, including the proposed changes to Appendices A and F.

There were also presented to the group the open issues. These were discussed in detail and agreed by the group members.

Agenda Item 11: Next DMG Meetings

Dates and location of the next meetings

DMG28: 15-17 October 2019, Brussels

DMG29: 10-12 March 2020, Bucharest

DMG30: 16-18 June 2020, Kazan.

Agenda Item 12: Any Other Business

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List of DMG papers for METG29:

DMG Report	
DMG Problem Handling Procedure (PHP) Report	MW
Status of ROC Moscow creation for some PT/EAST States	MP, SG
Update to EUR Doc 018	MP, PMJ
Update to EUR Doc 033	PS, MW
OPMET catalogue	MW, HS
Dissemination of Space Weather Advisory Information	PS
Update to METNO Procedure	WD, PS, HS
IWXXM Implementation Workshop – Nov 2019	ICAO
IWXXM Implementation Survey Results 2019	ICAO
Status of special air-report implementation	ICAO
EUR eANP Vol III – proposed tables	ICAO

List of actions resulted after DMG27

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	DMG25		
DMG25-5-1	Assess the best way of determining the transit time of a message through the network	M. Pichler	DMG/28
DMG25-8-6	Agree on the format of the routing tables and the frequency of updates and will start exchanging the tables	ROCs	DMG26
	DMG26		
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DMG26-4-2	The ROCs will regularly inform ICAO on the necessary updates to the current status of implementation of IWXXM exchange in their AoR	ROCs	Permanent
DMG26-5-3	Analyze the warning monitoring results of the Feb 2019 exercise and take appropriate actions to solve the routing problems within their AoR	ROCs	DMG27
DMG26-5-9	Use of Feb 2019 Monitoring Work-packages to verify whether data coming from their area of responsibility are correctly registered according to the procedure.	ROCs	
	DMG27		

DMG27-2-1	Contact AST Task Force to clarify which coordination is needed on the foreseeable increase in data volume exchange in relation with introduction of IWXXM.	DMG	
DMG27-2-2	Check with AST TF whether they could investigate with the other regions on the (extended) AMHS availability, or the existence of corresponding implementation plans.	DMG	
DMG27-4-1	Review and update the IWXXM presentations, in preparation of IWXXM workshop in Nov 2019	DMG	
DMG27-5-1	Check with the MOG on the possibility to have an official reference document providing information about the ICAO region of each location entry in Doc 7910.	UK France	
DMG27-5-2	Paper to be presented at METG29 showing the current version and structure of the catalogue and highlighting the spotted issues related to reference documentation used. The paper will also include information on the frequency of updates to the catalogue and the place where it will be published.	M. Wagner H. Swinnen	METG29