

REPORT OF THE DATA MANAGEMENT GROUP

TWENTYSIXTH MEETING

(Whiteley, 12-14 March 2019)

The twenty-sixth meeting of the Data Management Group was held from 12 to 14 March 2019 in the premises of NATS - Whiteley, and was attended by the following participants:

List of participants

M. Mohamed Mezred	Algeria
Mr. Michael Pichler	Austria
Mr. Herman Swinnen	Belgium
Mr. Wim Demol	Belgium (vice-Chairman)
Mr. Per Moeller Jensen	Denmark
Mr. Patrick Simon	France (Chairman)
Mr. Laurent Marty	France
Mr. Laurentiu Brojboiu	Romania (Secretary)
Mr. Matthew Wagner	United Kingdom
Mr. Christopher Stokes	United Kingdom
Mr. Christopher Keohan	ICAO Paris

Missing:

M. Igor Arestov	Russian Federation
M. Sergei Grabko	Russian Federation

Agenda Item 1: Adoption of the provisional agenda

The DMG chairman informed the group, with regret, on the absence of representation from Russian Federation DMG members 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 25 report & Actions from previous meetings**

Draft Report DMG25 & DMG25 actions list

3. **Information from other groups**

ICAO

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

- Volcanic ash exercise presentation (ICAO)

Global Groups

WG-MIE , MOG/SADIS, IMP, METP

- IP01 - 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
- [WP02 - Draft eANP VOL III – B1 – AMET \(ICAO\)](#)
 - [WP03 - Plan for IWXXM Implementation Workshop in the EUR Region \(ICAO\)](#)
 - [WP04 - IWXXM Implementation Planning Questionnaire ICAO EUR Region \(ICAO\)](#)
 - [WP07 – IWXXM and AMHS testing \(Denmark\)](#)
 - [EASA Survey on IWXXM](#)
 - [WP17 - COM Centre FTBP support for IWXXM in the EUR Region](#)
 - [IP04 - Testing IWXXM Data Exchange](#)

5. **OPMET Data Monitoring results, action plans & PHP**

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

Systematically wrong formatted/coded OPMET data

Routing problems

Missing data

- ~~[WP06 - TT_eANP_Req_NOT_RX \(Belgium\)](#)~~ discussed under WP18
- [WP08 – PHP Manager update \(UK\)](#)
- [WP10 – OPMET and SADIS Monitoring Stats, visual tool \(UK\)](#)
- [WP15 - EUR Warning Monitoring \(Austria\)](#)
- [WP16 - APAC SIGMET Monitoring \(Austria\)](#)
- [WP18 - DMG February 2019 OPMET Data Monitoring results](#)
- [WP20 - DMG EUR Problem Handling Directives](#)

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;

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

- [WP19 - ICAO EUR OPMET Data Performance](#)

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;

- [WP05 – State Agreement ROC Services](#)

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.

8. **RODEX**

Routing policy & Quality Control

- ~~IP02 – Data Quality Control at ROC London (UK)~~
- [WP11 – SWXA possible routing by ROCs & NOCs \(France\)](#)

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

- [WP09 – OPMET Catalogue \(UK\)](#)

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.

- SWXA headings coordination (oral presentation France)

ROC Back-up procedures/ contingency arrangements

London → Toulouse
Toulouse → Vienna
Vienna → London

Coordination with other regions

RODC

- RODC Status (oral presentation - Algeria)
- [WP13 - Review RODC-website \(Austria\)](#)
- [WP14 - DMG-website \(Austria\)](#)

9. **EUR Documents**

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

- [WP12 – Review Doc 018 \(Austria\) + reviews](#)

10. **SWIM**

Outcomes of SWIM/PT

SWIM Plan

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

- [SWIM PT Presentation \(ICAO\)](#)

DOC 033 (Guidelines on IWXXM transition in the EUR region)

Status of translation centre agreements for IWXXM

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 27: 4-6 June 2019, Copenhagen
 DMG 28: 15-17 October 2019, Brussels (or Norway)
 DMG 29: March 2020, TBD

12. AOB

- [IP03 SIGMET Coordination in Maghreb States](#) –will be presented at DMG27
- [DMG Documentation AIRAC](#)

Agenda Item 2

Adoption of DMG25 Report

The group reviewed and approved the DMG25 report, including the comments and updates.

Actions from the previous meetings

The group reviewed the status of the actions established at the DMG25 meeting. The completed tasks were erased from the list (highlighted in yellow; see comments).

List of actions resulted after DMG25

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	DMG24
	DMG23		
DMG23-5-2	PHP Manager will derive PHP tickets per states for the differences recorded between used FIR Names and those declared in 7910	M. Wagner H. Swinen	DMG24
DMG23-5-4	Contact the centres in ROC Viena AoR, asking to review their list of requested warning data	M. Pichler	DMG26
DMG23-5-5	Use the package TT_EANP_Req_NOT_RX to derive tickets for missing data, for each ROC	M. Wagner	DMG24
	DMG24		
DMG24-3-2	Coordinate with Ukraine the usage of FIR names as declared in 7910 for UKDV, UKLV (prior check needed that apostrophe is supported)	C. Keohan	DMG25
DMG24-3-3	Check with Uzbekistan on the missing SIGMETs for UTNR, UTSD	M. Pichler	DMG25
DMG24-3-4	Inform DMG25 on the status of implementation of 24-hour TAF for UTDD by Tajikistan	Russian Federation	DMG25
DMG24-5-2	Investigate with Portugal regular requests addressed to Brussels RODB	P. Simon	DMG25
DMG24-6-2	Inform on the developments made to the SADIS availability presentation tool.	M. Wagner	DMG25

DMG24-7-2	Provide credentials for accessing the RODC application. Verify the functionality of the application and provide to M. Mezred comments, remarks and suggestions	M. Mezred DMG Members	DMG25
DMG25			
DMG25-2-1	will update the list of AOP/non-AOP mixed bulletins derived after Feb 2019 monitoring to incorporate changes announced through the METNO procedure. The updated list will be used by the ROCs to address the mixed bulletins issue as well as the registered/not-monitored and not-registered/monitored bulletins.	H. Swinnen ROCs	DMG26
DMG25-2-2	Restructure EUR OPMET Update Procedure (App. B of the Hdbk)	M. Pichler H. Swinnen	DMG26/27
DMG25-5-1	Assess the best way of determining the transit time of a message through the network	M. Pichler	DMG/26
DMG25-5-2	Check with the AFSG-PG whether (and what) statistics on IWXXM data volume are needed	P. Simon	Nov 2018
DMG24-6-1	Provide the current version of the eANP tables related to OPMET Performance Indicators. Update the App F of Doc 018 and eANP Vol III according to that and to the conclusions of DMG25	C. Keohan W. Demol and P. Jensen	DMG26
DMG25-7-1	Check the work packages for the implementation of ROC Moscow (App B & C of WP05, including updates during DMG25) and provide feed-back to M. Pichler by mid January 2019.	DMG members	DMG26
DMG25-7-2	Inform AFS – OpsG meeting on the plans regarding implementation of ROC Moscow. Inform the next AFSG-PG meeting.	P. Jensen P. Simon	2018
DMG25-8-1	IP for METG29 to describe the current distribution of the METNO messages	Belgium	DMG27
DMG25-8-2	Check the METNO bulletins needed by NOCs in their AoR and take appropriate measures for routing	ROCs	Nov/Dec 2018
DMG25-8-3	Start distribution of METNO messages through AMHS to the three ROCs	H. Swinnen	1 st Nov 2018
DMG25-8-3	Pass the information related to Special AIREP problems (format, content and dissemination) to the Inter-Panel Task Force on Special AIREP (through the Eurocontrol representatives)	C. Keohan	
DMG25-8-4	Provide the results of the 3 days ASIA/PAC SIGMET monitoring to M. Pichler who compile and send to ROC London and Singapore. Present a paper to DMG26.	ROCs H. Swinnen	DMG26
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

Regarding action DMG23-5-2: H. Swinnen provided a listing of current differences recorded during Feb 2019 monitoring. The extensive list included minor differences (i.e. "FIR YUDO" instead of "YUDO". Therefore, the group agreed to adopt a more pragmatic way and use instead for the

comparison the names of the FIRs as declared in eANP vol I. The action DMG23-5-2 was closed and the following new action was decided:

Action 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 that 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.

For action DMG25-8-2, ROCs London and Toulouse confirmed that the routing of METNO messages to NOCs in their AoR is already implemented. ROC Vienna will confirm the next days. Distribution on SADIS needs to be verified.

Action DMG26-2-2: ROC London will check the possibility to distribute the METNO messages on SADIS.

Agenda Item 3: Information from other groups

Volcanic Ash Exercises

C. Keohan updated the group on the results of completed exercises (VOLCEX 18) and informed on the dates and objectives of the next volcanic ash exercises VOLCEX19 and VOLKAM19 (18-19 Apr 2019, Kamchatka, Russian Federation).

IP01 – METP/4 Information

P. Simon informed the group on outcomes from fourth meeting of MET Panel (October 2018, Montreal). These included proposed amendments to ICAO Documents (Annex 3, Annex 10, Doc 8896) related to the exchange of data in IWXXM format (using AFS). There was also mentioned that a proposal had been discussed regarding cessation of TAC messages in 2026. P. Simon will provide updates at DMG27 with information resulting from the MIE/5 meeting (May 2019). There were also presented the main activities of MIE that have connection with DMG domain.

Agenda Item 4: IWXXM Action Plan

WP02 - eANP VOL III - B1 - AMET

The IWXXM table, updated with information discussed during the meeting, will be circulated to DMG members which will provide further necessary updates.

Action DMG26-4-1: The DMG members will provide updates to the IWXXM status of implementation in EUR Region. At DMG27, C. Keohan will present the updated picture.

C. Keohan presented also in Appendix B to the WP a more suggestive representation of current status, using graphics and maps. It was agreed that the document needed to be updated regularly to reflect the changes.

Action 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.

WP03 – Plan for IWXXM Workshop in the EUR Region

C. Keohan informed the group on the plan to have an IWXXM implementation workshop in the last quarter of 2019. The convening letter for the States was also presented. Regarding the tentative dates proposed (5-6 November 2019), it was noted that these are in conflict with the AFSG-OG meeting. Therefore, the exact dates of the meeting need to be fixed in the next weeks taking into account the availability of other participants as well (e.g. WMO). The meeting room was provisionally booked for 4-7 Nov.

C. Keohan will make a selection of the presentations used during previously workshops. The DMG members were invited to review and update where necessary these presentations and report back

to DMG/27. Regarding the content of the State letter, it was considered beneficial that participants be invited to send in advance proposals on topics that need to be discussed and on subjects that needed clarification. The revised content of the State letter will be discussed during DMG27.

WP07 – IWXXM Test Denmark

P. Moller Jensen presented to the group details of the scenario used for testing the IWXXM exchange between Denmark and Czechia, using AMHS with FTBP and compression. After initial minor problems, the test was considered successful and is currently going on. There were raised questions related to the compression algorithm to be used and related to the maximum size of FTBP attachments.

IP04 – Testing the IWXXM Data Exchange

M. Pichler presented to the group a summary of key issues related to testing the IWXXM exchange, including test cases, coordination between participants, coordination with other groups, reporting. It was presented that more testing needs to be performed, apart from the tests described in App. H of EUR Doc 020 and that a standardized document to be used for testing would be very beneficial. More details will be presented in a working paper for DMG27.

Action DMG26-4-3: Austria and Denmark will work on tests that need to be performed for IWXXM distribution and present a WP to DMG27.

WP17 - COM Centre FTBP support for IWXXM in the EUR Region

Jason Watts (UK) presented to the group technical details regarding the importance of a complete AMHS path supporting File Transfer Body Part (FTBP) for the successful exchange and operation of IWXXM data. COM Centres should be encouraged to update and acknowledge their functionality in the AMC Application to demonstrate the FTBP support. It was agreed that a State letter would be distributed by ICAO Office in this respect. The draft of this State letter should be passed to the AFSG and its sub-groups for review prior to distribution, and therefore the following action was concluded:

Action DMG26-4-4: J. Watts will provide to C. Keohan 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.

Agenda Item 5 : OPMET Monitoring Results and Action Plans

WP16 – ASIA/PAC SIGMET Monitoring

M. Pichler presented to the group the results provided by the three EUR ROCs on the ASIA/PAC Sigmet monitoring exercise (Nov. 2018), together with a first analysis of those results. There were identified two types of deficiencies: data entering the region but not received by all 3 ROCs (routing problem inside EUR) and data received multiple times from ASIA (routing problem in ASIA/PAC). The following actions were concluded for ROC London:

Action DMG6-5-1: ROC London will verify the routing to ROC Toulouse and ROC Vienna for the messages not received by those.

Action DMG26-5-2: ROC London will coordinate with Singapore to check the routing and solve the multiple transmissions to EUR.

WP15 - EUR Warning Monitoring

M. Pichler presented to the group the results of the DMG warning monitoring exercise, Feb 2019. The results were presented directly from the operational database of the DMG website, together with a description of the presentation method and the interpretation of colour code used. It was mentioned that from now the results will be published this way and the ROCs (and any other States) will have the possibility to analyse and take actions.

Action DMG26-5-3: The 3 ROCs will analyse the warning monitoring results of the Feb 2019 exercise and take appropriate actions to solve the routing problems within their AoR.

WP08 – PHP Report

M. Wagner informed the group on the actions taken in response to signaled issues, together with the current status of the opened PHP tickets. Particular attention was granted to tickets opened between 2015-2017, with the following conclusions:

- ticket 1078 Monaco: a possible update on the situation expected from France in 2020
- ticket 1084 Tajikistan: possible addressing the representative at PT/EAST meeting
- ticket Malta: no result received so far
- tickets 1122, 1126, 1139 can be closed by France
- ticket 1142: Denmark informed that the splitted FTUS bulletins now have the AHL present in second part also and as such these are not rejected anymore. Ticket will be closed.

The following actions were concluded:

Action DMG26-5-4: M. Pichler will contact the Tajikistan representative during PT/EAST meeting in an attempt to solve ticket 1084. If not possible, address the issue through ICAO Paris.

Action DMG26-5-5: France will close tickets 1122, 1126 and 1139 and Denmark will close ticket 1142.

M. Wagner informed the group that a contact in SAM region has been identified and results are expected.

H. Swinnen draw attention to DMG members that newly opened tickets automatically receive status of "Logged". Tickets that working has started on should be changed to "Wait".

Action DMG26-5-6: The 3 ROCs will change the status from "Logged" to "Wait" for tickets that work has been started on.

WP10 - OPMET and SADIS Monitoring Stats

M. Wagner presented to the group the current status with the Visual tool for OPMET and SADIS monitoring. Changes since last presentation were highlighted. There were also detailed methods of accessing results, from overall performance to drill down to results per states. Regarding the referenced documentation, it was noted that the values of timeliness thresholds, although in accordance with Doc EUR 01 provisions, were not in line with the values agreed by the group and with the ICAO Annex 3 provisions (10 min for METAR and between 1h and 0h before start of validity for TAF). The following action was agreed:

Action 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).

Action DMG26-5-8: M. Wagner will derive new monitoring stats based on the agreed timeliness threshold values and will present those to DMG27.

Furthermore, it was agreed that for future Stats on AFS, monitored data from Brussels will be used instead of data monitored at ROC London.

M. Wagner informed the DMG members about the current concerns on hosting the tool related to cyber security. It was agreed by the group that hosting by ICAO or DMG website would not be practical, as specific software needs to be installed and also the access of NATS for maintenance would not be easy. Proposal on this subject from the specialized department within NATS was expected and will be presented at DMG27.

*WP18 – DMG OPMET Monitoring Results – Feb. 2019
(including DMG26 WP06 - TT_eANP_Req_NOT_RX)*

H. Swinnen (the DMG Focal Point) presented to the group the work packages resulted from the February 2019 Routine OPMET monitoring. Each package was described in detail, together with its possible usage for optimising the regional and inter-regional dissemination of OPMET data. It was agreed that M. Wagner (the PHP manager) will cooperate with H. Swinnen to interpret and

use the results of the monitoring exercise to initiate appropriate actions for optimising the distribution and availability of OPMET data.

WP20 – DMG EUR Problem Handling Directives

The paper presented by H. Swinnen introduced guidance on using the OPMET Data Monitoring Results WPGs for handling problems in areas like availability, routing, synchronisation of different media, registration of data. Based on details provided by the paper, the following actions were agreed:

Action DMG26-5-9: The 3 ROCs will make use of Feb 2019 Monitoring Work-packages to verify whether data coming from their area of responsibility are correctly registered according to the procedure.

Action DMG26-5-10: M. Wagner (PHP Manager) will use the 2019 monitoring work-packages to address issues related to availability, routing and synchronization of AFS-SADIS-WIFS.

Agenda Item 6 – Performance Indices

WP19 – ICAO OPMET Performance

H. Swinnen presented an overview of the evolution recorded for the process of calculating the ICAO EUR OPMET Performance Indices. The DMG Metrics for calculating the indices and the corresponding processing stages were detailed to the DMG members. Finally, the results of the availability and timeliness indices based on the February 2019 monitoring exercise were presented for evaluation by the DMG.

Regarding States that had not met the target requirements, the following action was agreed:

Action DMG26-6-1: For States reported with OPMET Performances below the thresholds, H. Swinnen will provide details regarding the corresponding aerodromes. The 3 ROCs will issue PHP tickets for the aerodromes in their area of responsibility (before end of April).

The status of the opened tickets will be reviewed during DMG27 and will update the PHP report for METG.

It was also highlighted that the availability and timeliness results are currently calculated from available METAR reports (no matter whether observations were made at hourly or half-hourly intervals). It was considered necessary to notify this aspect in the report to METG.

Regarding the monitoring of the SIGMET messages format, it was agreed to update the results with data from the Feb 2019 monitoring.

Action DMG26-6-2: P. Simon will update the results for SIGMET format compliance based on results from the Feb 2019 monitoring exercise.

Agenda Item 7: Possible creation of a 4th ROC

WP05 – State Agreement ROC Services

C. Keohan presented to DMG for review the draft State Letter regarding acceptance of being under the Area of Responsibility of ROC Moscow.

Agenda Item 8: RODEX

WP09 – OPMET Catalogue

M. Wagner presented to the group the principles used for deriving the catalogue of OPMET data disseminated over SADIS and the EUR AFS, together with the corresponding output based on the latest monitoring results. The group discussed that such catalogue had been already derived

regularly by the DMG Focal Point based on DMG OPMET monitoring results (previously known as SUG An. 2, 3). The following action was agreed:

Action DMG26-8-1: M. Wagner and H. Swinnen will 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.

WP11 - SWXA routing policy by ROCs & NOCs

P. Simon presented the proposals for routing policy to be applied for routing of Space Weather Advisories. The dissemination of SWXA in the EUR region was agreed as follows:

For SWXAs originated in the EUR region (Toulouse for the EUR part of ACFJ and Helsinki for PECASUS), the inter-regional routing can be performed by the EUR IROGs. In reciprocity, the EUR IROGs will route SWXAs originated from other regions (namely NAM for the US, APAC for the Australian part of ACFJ).

The International data banks and aeronautical fixed service Internet-based services can be served (as usual) following the RODEX schema as well as the NOCs.

It is more difficult to consider how to send practically the SWXA to the area control centres (ACC), flight information centres (FIC) (Civil aviation bodies) "in its area of responsibility **which may be affected**". It has been agreed to propose a two steps process:

- As a first step, the SWXC will send in addition to all FIR/ACC. The dissemination is based on implementation policy which could be different in the regions, therefore it is hard to define how to send data from a global centre (as an example, should the ROCs send to their ACC/FICs and ask to an agreement to adjacent regions to do the same from their IROGs?)
- As a second step, the SWXC should send to the ACC/FIC **which may be affected**. The difficulty is linked to several technical limitations:
 - The availability of a tool used by the SWXCs which is "FIR" based and can derive which FIRs are concerned by an advisory,
 - The availability of an aeronautical metadata database with the ACCs / FICs organisms and the associated knowledge of the AFTN/AMHS addresses of these recipients,
 - The necessity to be able to address by AFTN and AMHS (from 2020),
 - The difficulties about the availability of AMHS links to send the IWXXM information to ACCs/FICs and the high risk of dealing with numerous NDR for recipients not in capacity to receive such information.

RODEX Back-up Procedure

P. Simon informed that France updated the AFTN addresses.

ROC London is expected to confirm the availability of a test platform for testing the back-up procedure.

ROC Vienna will coordinate the actions related to the test, with the intention to perform the test by the end of the year.

WP13 – RODC Website

M.Pichler presented a review of the first prototype of the RODC-website developed by M. Mezred. It was considered to be highly beneficial if at one of the next DMG-meetings half a day could be reserved for a workshop on this special topic, involving M. Mezred and other 2-3 DMG members. DMG members were invited to express their opinions on the items marked with "For discussion:" throughout the paper.

WP14 – DMG Website

M.Pichler informed the group members on the updates to the DMG website, like: new search functionality, presentation of results (including colour coding), IWXXM information, reference links. There were also presented future improvements planned to be implemented.

Action DMG26-8-2: The DMG members will send to M. Pichler their comments/observations related to the DMG-website (in particular for the IWXXM section).

RODC Application – Current status

The group discussed on the current status of the RODC. It was mentioned the need for a more consistent presentation to METG related to its development. There was considered that the RODC should be re-worked to take into account the current and future tendencies related to the OPMET data exchange. In this respect, there was agreed that a gradual approach should be taken into account, and the following steps were envisaged:

- Step 1: Prepare the RODC as a platform in support of the ROC backup procedure. This implies establishing the regular exchange of the routing tables by the 3 ROCs
- Step 2: RODC as an inventory, a means to visualize the available OPMET data.
- Step 3: RODC as an enabler for the process of filtering the required data.

The group agreed that in the following period, the first step need to be addressed and therefore the frequency of updating the routing tables need to be agreed upon. A test of the backup procedure needs to be performed by the end of this year.

Agenda Item 9 – EUR Documents

WP12 – Review Doc 018

M. Pichler provided general information about the proposed changes to Appendices B, D, E and G of the EUR OPMET Handbook.

The group recalled that Annex 3 introduces a change for the VA SIGMET format related to the use of TEST field. It was considered that this new format needs also to be reflected in the Doc 18, as well as in the warning monitoring procedure.

C. Keohan informed that it will mention this format change during the next webex of the SIGMET ad-hoc group.

Action DMG26-9-1: The DMG members will review the proposed changes to EUR Doc 018 and will send their comments to M. Pichler by the end of April.

Skeyes presented a review of eANP Vol III (OPMET performance indices) according to the conclusions of DMG25 (Action DMG24-6-1). After agreement by the group, the final version was circulated.

Agenda Item 10 – SWIM

C. Keohan offered to the group a presentation of the completed and future activities of the SWIM Project Team. The next SWIM PT meeting is scheduled for 27-28 May in Chisinau, Moldova.

Agenda Item 11: Next DMG Meetings

Dates and location of the next meetings

DMG27: 4-6 June 2019, Copenhagen

DMG28: 15-17 October 2019, Norway or Belgium

DMG29: March 2020, Belgium or Romania

Agenda Item 12: Any Other Business

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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	DMG24
	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	DMG25
	DMG25		
DMG25-5-1	Assess the best way of determining the transit time of a message through the network	M. Pichler	DMG/26
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	April
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
DMG6-5-1	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	ROC London	DMG27

	the multiple transmissions to EUR		
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 <i>EUR Region and SADIS OPMET Catalogue</i> 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