

# REPORT OF THE DATA MANAGEMENT GROUP

## NINETEENTH MEETING

(Brussels, 28-30 March 2017)

The twentieth meeting of the Data Management Group was held from 28 to 30 March 2017 in Belgocontrol premises, and was attended by the following participants:

### List of participants

|                        |                         |
|------------------------|-------------------------|
| Mr. Mezred Mohamed     | 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. Laurentiu Brojboiu | Romania (Secretary)     |
| Mr. Sergey Grabko      | Russian Federation      |
| Mr. Igor Arestov       | Russian Federation      |
| Mrs. Maria Zabavka     | Russian Federation      |
| Mr. Graham Easthope    | United Kingdom          |
| Mr. Christopher Keohan | ICAO Paris              |
| Mrs. Dorothea Banse    | METG                    |

### Agenda Item 1: Adoption of the provisional agenda

After the meeting opening, the group discussed on the provisional agenda and adopted it as follows:

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|   |  |  |
| <b>1. Approval of the Agenda</b>  |  | <b>DMG20 WP01 - Agenda</b>   |
| <b>2. Approval of the DMG 19 report</b>   |  | <b>DMG20 WP02 - DraftReport_DM19</b>                                       |
| <b>3. Actions from previous meeting</b>   |  | <b>DMG20 WP02 - DMG19 action list</b>                                      |
| <b>4. Information from other groups</b>   |  |  |
| <b>ICAO</b><br><u>EUR</u><br>EANPG, COG<br>METG<br>AFSG, AFSP/PG<br>VA<br><br><u>Coordination with other regions</u><br><br><u>Global Groups</u><br>WG-MIE<br>MOG/SADIS<br><br><b>WMO</b><br>TT AvXML |  | <b>WP03 ICAO Items</b><br><br><b>WP04 IWXXM AMHS Profile &amp; Doc 033</b> |
| <b>5. IWXXM Action Plan</b>   |  |  |

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|---|--|
| <p><u>Actions and coordination</u></p> <ul style="list-style-type: none"> <li>- ROC plans</li> <li>- RODBs plans</li> <li>- Other regions</li> <li>- Testing AMHS</li> <li>- Implementation issues identified (e.g. limitation on FIR name of 10 characters – how does IWXXM manage this when some FIR names are more than 10 characters long)</li> <li>- Organisation and DMG participation to the IWXXM ICAO EUR workshop (17-18 May 2017, Paris)</li> <li>- APAC/EUR/MID Seminar on ‘Service improvement through integration of AIM, MET and ATM information Services’ (2-5 Oct 2017, Brussels)</li> </ul> <p><u>Review State letter relating to translation centre agreements</u></p> | <p>IP02 Status implementation EBBR<br/>IP04 Status implementation LFPW</p> <p>WP03 App C</p> <p>WP11 Conventions in Ann. 3 – no of chars<br/>WP15 IWXXM Data Addressing &amp; Routing</p> <p>WP03 App B</p>  |
| <p><b>6. OPMET Data Monitoring results and action plans &amp; PHP manager report</b></p> <p><u>Monitoring results &amp; following PHP actions, including:</u></p> <ul style="list-style-type: none"> <li>Systematically wrong formatted/coded OPMET data</li> <li>Routing problems</li> <li>Missing data</li> <li>Consolidated set of timers values</li> <li>Special AIREP monitoring</li> </ul> <p><u>Support to the new eANP</u></p> <p><u>DMG support for agreed exchanged non AOP aerodromes</u><br/><u>OPMET Volume III – MET</u></p> <ul style="list-style-type: none"> <li>SIGMET, AIRMET implementation</li> <li>Other OPMET implementation</li> </ul>                            | <p>WP06 EUR PHP Progress Report<br/>WP10 PHP Application Provision for IWXXM</p> <p>WP13 OPMET Monitoring Results Feb. 2017<br/>IP01 ASIA/PAC SIGMET Monitoring</p> <p>IP03 Missing Keyword from reports</p> <p>WP05 Agreed non-AOP aerodromes exchanged</p> |
| <p><b>7. Performance indices</b></p> <p>Propose/create performance indices</p>  | <p>WP14 ICAO OPMET Performance</p> <p>WP03 App D</p>   |
| <p><b>8. RODEX</b></p> <p><b><u>RODC</u></b></p> <ul style="list-style-type: none"> <li>- ROC Back-up procedures/ contingency arrangements <ul style="list-style-type: none"> <li>London → Toulouse</li> <li>Toulouse → Vienna</li> <li>Vienna → London</li> </ul> </li> <li>- Study possible foreseen improvements, prerequisites, technical and documentation changes to be in place prior to a possible creation of a new ROC for some PT/EAST States and report back to METG</li> </ul>   | <p>WP08 Back-up Procedure</p> <p>WP12 NOC Moscow (Russia)<br/>WP07 NOC Moscow</p>  |
| <p><b>9. EUR Documents</b></p> <ul style="list-style-type: none"> <li>DOC 018 Handbook</li> <li>DOC 033 CONOPS on XML</li> </ul>  | <p>WP09 Distribution Determination</p>   |

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|----|---|--|
| 10 | <b>Next meetings</b><br><br>DMG 21, 27-29 June, dates St Petersburg<br>DMG 22, 24-26 October (TBC), Romania |  |
| 11 | <b>AOB</b>  |  |

### Agenda Item 2: Adoption of DMG19 Report

The group reviewed and approved the DMG19 report, including the comments and updates.

### Agenda Item 3: Actions from the previous meeting

The group reviewed the status of the actions established at the DMG19 meeting. The completed tasks were erased from the list (highlighted in yellow; see comments).

### List of actions resulted after DMG19

| Ag. Item/BMG | Action item   | Responsible             | Target date |
|--------------|---|-------------------------|-------------|
| <b>DMG15</b> |   |                         |             |
| DMG15-9-3    | Update the ROC backup procedure to remove the references to other data sources apart from AFS or GTS                                    | M. Pichler              | DMG16       |
| <b>DMG16</b> |   |                         |             |
| DMG16-4-5    | Obtain the headers for Special AIREP messages used by Malta and Portugal.   | P. Simon                | DMG17       |
| DMG16-5-7    | Progress report on the development of software applications for depiction of systematic TAC coding errors                               | P. Simon                | DMG18       |
| <b>DMG17</b> |   |                         |             |
| DMG17-5-2    | Inform permanently DMG on the changes that WG-MIE adopt for the Guidelines, in order that the regional document be updated accordingly. | P. Simon<br>C. Tyson    | Permanent   |
| DMG17-4-4    | Cross-check the SIGMET headers database provided by ICAO with the results of a 3 month monitoring period                                | P. Simon<br>C. Keohan   | DMG18       |
| <b>DMG18</b> |   |                         |             |
| DMG18-3-1    | Implement the new AFTN addresses by DMG19   | ROCs                    | DMG19       |
| DMG 18-5-3   | IP or WPs on the testing scenarios used by ANSPs to connect MET switches to AMHS and exchange of data using extended AMHS.              | DMG Members             | DMG19       |
| DMG 18-6-1   | Investigate on the RQM coming from Portugal   | P. Simon                | DMG19       |
| DMG 18-6-2   | Perform monitoring for Annex 3 Amd 73 (keyword in the beginning of report) for Panama, Cuba, USA  | P. Simon<br>L. Brojboiu | DMG19       |
| DMG18-6-3    | Address ticket on SIGMET from Chad sent directly to Denmark   | P. Simon                | DMG19       |
| DMG18-6-6    | WP on presenting the availability of OPMET data per issuing State   | H. Swinnen              | DMG19       |
| <b>DMG19</b> |   |                         |             |
| DMG 19-3-1   | Present a WP on the following: structure and content of the distribution tables, difficulties envisaged (like GTS                       | M.Pichler<br>H. Swinnen | DMG20       |

|            |  |                                     |          |
|------------|--|-------------------------------------|----------|
|            | distribution), presentation of the information (e.g. on the DMG website).  | G. Easthope                         |          |
| DMG 19-4-1 | Contact representatives from Algeria and Netherlands regarding their participation in DMG activities.  | P. Simon                            | DMG20    |
| DMG 19-4-2 | Prepare a WP with the results of the ASIA/PAC SIGMET monitoring  | M. Pichler                          | DMG20    |
| DMG 19-5-1 | Provide details on the usage of IHE for IWXXM AMHS exchange. P. Simon will address the issue to the French representative to AFSG in order to be presented at the next AFS/PG meeting                                    | H. Swinnen                          |          |
| DMG 19-5-2 | Derive a chart depicting the connectivity of OPMET centres using AMHS  | C. Keohan                           | DMG20    |
| DMG 19-5-3 | Invitations sent to WMO, WG-MIE, AFSG to attend the IWXXM implementation workshop in May 2017  | C. Keohan                           | May 2017 |
| DMG 19-5-4 | Prepare a draft agenda for the IWXXM workshop and collaborate via e-mail with the DMG members (during the next 2 weeks).   | C. Keohan                           | Nov 2016 |
| DMG19-5-5  | Derive statistics regarding the IWXXM traffic volumes during the peak hours - present an IP.   | P. Simon                            | DMG20    |
| DMG 19-6-1 | Derive results for timeliness conformity of non-EUR data, based on February 2017 monitoring. The results will be analysed by each of the three ROCs for data coming from its region and a WP will be presented at DMG21. | W. Demol<br>3 ROCs                  | DMG21    |
| DMG 19-6-2 | Contact Morocco regarding GMMD (ticket 1112).  | P. Simon                            | DMG20    |
| DMG 19-6-3 | Ticket 1128 (incorrect AFTN addressing from Chad) needs to be closed by P. Simon/ J. Funder, and a new ticket will be created by P. Jensen to address the issue  | P. Simon<br>P. Jensen               | DMG20    |
| DMG 19-6-4 | Analyse how the current types of problems as defined in the PHP application are applicable to IWXXM data and present to the next DMG meeting the required notifications or proposals.                                    | DMG members                         | DMG20    |
| DMG 19-6-5 | Obtain information from ICAO MET Panel regarding the monitoring of Special AIREP messages and inform accordingly at the next DMG meeting (either a WP or verbally, depending on the outcome).                            | C. Keohan                           | DMG20    |
| DMG19-6-6  | Inform METG that the requirement for TAF availability 30min before validity is not present anymore in the ANP and ask for guidance on the matter, as well as for the frequency of METAR messages.                        | P. Simon                            | METG     |
| DMG19-6-7  | Work on a proposal for the metrics associated to availability and timeliness of OPMET messages and present that to DMG20.  | C. Keohan<br>G. Easthope            | DMG20    |
| DMG19-9-1  | Present a WP related to the progress with the backup procedure implementation.   | 3 ROCs                              | DMG20    |
| DMG19-9-2  | Present a WP on the work programme related to establishing of a new ROC for PT/EAST states.  | P. Simon<br>M. Pichler<br>C. Keohan | DMG20    |

Regarding Action DMG16-4-5, it was noted that Portugal provided the headers, while for Malta there is still no response. The following action was agreed:

DMG20-3-1: P. Simon will perform a new monitoring regarding the SPECIAL AIREP used and present the results to METG in order to take action.

Regarding action DMG17-5-2, it was mentioned that the Word version of the Guidelines will be distributed to the DMG members, as requested during the meeting.

#### **Agenda Item 4: Information from other groups**

##### *WP03 – ICAO Items*

A status of actions related to ICAO from DMG/19 and previous meetings were provided for the group by C. Keohan.

The group was informed that the eANP Volume II was to be available on the ICAO Portal group SPACE for APAC, MID, and NAT. For EUR the posting on SPACE was pending.

C. Keohan informed about the preparations for the IWXXM Workshop that is going to take place between 17-18 May in ICAO Paris RO. The group agreed that a preliminary meeting of the DMG members that will participate, held on the day before the workshop, will be beneficial for a good organisation of the presentations that are going to take place. An invitation in support of that will be sent in advance.

Action DMG20-4-1: P. Simon will distribute an invitation to DMG members that intend to participate to the IWXXM workshop for a meeting on 16 May in ICAO Paris RO.

It was mentioned that clarifications are expected from WMO on a number of aspects, as follows:

- schematron
- IWXXM versioning
- usage of WMO registries
- collect – mandatory ?

C. Keohan will send this inventory to D. Ivanov in advance, in support of preparation of the clarifications.

Other issues presented in the WP03 were discussed later during the meeting, under the corresponding agenda items.

##### *WP04 – IWXXM AMHS Profile & Doc 033*

P. Simon provided to the group a comprehensive presentation of the activities of AFSG/PG from the last year related to IWXXM data exchange implementation. The main milestones were related to the adoption of the IWXXM AMHS profile and inclusion in the AFS documentation (App. H to EUR AMHS Manual), and the development of test cases to be used for testing connectivity of a NOC with its COM centre (and with associated ROC). It was agreed by the group that, after due review by the AFSG/21 meeting, to propose to METG an update of DOC033 for the addition of an appendix that would refer to the EUR AMHS Manual and more specifically to the specifications of the AMHS profile to be used for OPMET data exchange using IWXXM, and proposed test cases that could facilitate the related testing activities.

The group also noted the good coordination between DMG and AFSG/PG.

##### Other information

M. Pichler informed the group about the information exchanged with Peter van Uden (KNMI) related to IWXXM data implementation.

It was mentioned that it was expected that WMO would approve the 2.1 schema in the beginning of 2018.

C. Keohan informed the group about the next planned VA exercise, which was going to take place between 20-21 April 2017 on an event in Kamchatka.

There was also mentioned that in April 2017 a workshop on the SIGMET coordination will take place with participation of Maghreb States.

## **Agenda Item 5 - IWXXM**

### *IP02 - Status and planning of IWXXM implementation in Belgium*

W. Demol presented an update of the status and planning of IWXXM implementation in Belgium. The initial implementation was already in place since Nov 2016, TAFs & METARs from Belgium and Luxembourg were converted to IWXXM 1.1 and archived (not yet distributed). Implementation of RODB IWXXM functionalities and upgrade to IWXXM 2.0 are planned for end June 2017.

There were also repeated to the group a number of remarks and issues discovered during the IWXXM implementation and bi-lateral testing. Among these, there were mentioned:

- re-compilation of bulletins with reports having prefixes not-compatible
- time to be used for TREND
- collect vs. separate messages for RQX replies

As other issues had also been raised with other occasions, it was agreed that a list of open issues should be compiled and addressed via ICAO to WG-MIE and WMO for clarification.

Action DMG20-5-1: Wim Demol will coordinate with M. Pichler and G. Easthope and compile a list of open questions related to IWXXM implementation (contributions from DMG members are expected). This list will be presented to DMG21 and a study note will be presented to WG-MIE in July 2017 (or during one of the next webex meetings).

It was also mentioned that Belgium would like to start international distribution/reception of IWXXM formatted data via ROC London as soon as possible after the IWXXM 2.0 upgrade (end June 2017). With respect to that, any alternative possibilities were welcomed. It was asked whether EBBR could take over the responsibilities of ROC London regarding TAC-XML translation, for a transitional period or through ROC Toulouse. Although the answer was affirmative, it was pointed that distribution of IWXXM data was also necessary. Regarding this subject, the group agreed on the following:

Action DMG20-5-2: W. Demol and G. Easthope will work on possible scenarios for a transitional period for IWXXM data exchange implementation. The results will be presented in a IP to DMG21. DMG will also inform METG on the subject.

### *IP04 - Status and planning of IWXXM implementation in ROC & RODB Toulouse*

P. Simon informed the DMG members on the current status of IWXXM implementation for ROC Toulouse. The group was also informed on the outcome of bi-lateral tests for IWXXM exchange using AMHS (with FTBP) with Austro Control. There had been noticed issues related to usage of “\_” (underscore character) in the filename, which was to be included in the subject field, whereas this character is not allowed for this field. This issue was addressed in due time to AFSG/PG66 meeting which agreed to update the App H of the EUR AMHS Manual by replacing the “subject field” with TTAAiCCCCYYGGgBBB part of the filename of FTBP (instead of the full FTBP name).

### *WP03 – App. B The State Letter for the translation service delegation to ROC Centres*

Given the circumstances presented with IWXXM implementation status by the 3 ROCs, correlated with the uncertainties needed to be clarified first, it was considered that the adoption and the distribution of the state letter was premature at this stage.

Regarding the before mentioned adoption of the IWXXM schema by WMO next year, there was noted that further guidance on how to deal with adoption of new versions should be added to the list of open questions to be addressed to WG-MIE.

P. Simon informed the group that the schema provided a tag related to the “permissible use”..

P. Simon informed the group that Meteo France would use the “test” value of the “permissible use” tag when starting the distribution of IWXXM messages translated from TAC, until enough experience is accumulated. The group agreed that was a good practice to be followed by all NOCs/ROCs in the early stages of IWXXM exchange.

#### *WP03 ICAO Items –App. C. EUR NOC AMHS implementation.*

C. Keohan presented to the group the chart depicting the current AMHS connections between COM centres and their respective ROC. It was mentioned that direct AMHS connections are in place between Sweden – UK and Finland – UK. The chart should be updated with the new information expected to be available at AFSG/21.

There was considered important that the chart should represent the connections between the NOC (not the COM centre) and the corresponding ROC.

#### *WP15 – Data addressing and routing*

H. Swinnen presented to the group a proposal for the distribution, addressing and routing of IWXXM formatted meteo data in parallel to the current distribution of the TAC OPMET data.

The DMG members confirmed the need for TAC OPMET Monitoring Exercises during the parallel implementation of IWXXM data.

Regarding the routing of data from ROCs to the corresponding NOCs, that was to be discussed later during the meeting under WP09 – Distribution Determination.

#### *WP11 – Conventions in Annex 3*

G. Easthope presented to the group an issue related to the usage of the “n” indicators in the templates in Annex 3. The understanding of these indicators in the templates was as to specify the maximum number of characters permitted for the particular element. There were identified concerns around the limitation and inconsistencies of the templates when applied to Annex 3 messages ( e.g. FIR names that exceeded the 10 character limit permitted in SIGMET), especially for the foreseen IWXXM exchange.

It was agreed that the issue would be informally discussed with Raul Romero during the MOG meeting next week in order to find a way to proceed – possible by initiating a small correction to the Annex 3 provisions.

### **Agenda Item 6 – OPMET Data Monitoring**

#### *IP01 – ASIA/PAC SIGMET Monitoring*

M. Pichler, as the SIGMET monitoring focal point, presented to the group the results from Brussels, London and Vienna for the SIGMET monitoring exercise that had taken place in the ASIA/PAC region in November 2016. The format of the Excel-sheets was appreciated by the DMG members to better depict the routing problems.

Action DMG20-6-1: ROC London will check the routing of the bulletins identified by the monitoring and will derive PHP tickets as necessary.

#### *IP03 – Missing keyword from reports*

Following the action DMG18-6-2, L. Brojboiu presented to the group the results of a monitoring on the usage of the keyword in the beginning of each report from 1-15 Feb 2017. Regarding the issue with reports that have the keyword in the original bulletin while miss that in US compiled bulletins, there was agreed a further investigation should be made, with the possibility to suppress the duplicated bulletins. It was noted though that data availability was to prevail over the correctness of the messages.

Action DMG20-6-2: L. Brojboiu will derive a list of reports present in both US and non-US compiled bulletins and will provide that to G. Easthope for further investigation.

Action DMG20-6-3: G. Easthope will have an informal discussion with the US representatives during the MOG/SADIS meeting in order to address the issue with missing keyword in the beginning of reports as well as possibility of duplication suppression.

#### *WP06 – PHP Progress Report*

G. Easthope as the PHP manager presented in detail the PHP tickets progress from November 2016 to March 2017.

#### *WP10 – PHP Application Provision for IWXXM*

G. Easthope informed the group on the progress of actions that had been undertaken in response to action DMG-19-6-4 - Analyse how the current types of problems as defined in the PHP application are applicable to IWXXM data. The initial proposal submitted by the PHP manager received comments and suggestions from Austria and Belgium. The DMG members discussed the paper and agreed on the proposed changes to the application. It was noted that the proposed changes did not affect the existing tickets (these will be automatically updated). There was considered that no specific types related to SADIS were needed at this time.

Action DMG20-6-4: G. Easthope and W. Demol will present a WP to DMG21 with the updates to the PHP Ticketing Application.

As a follow-up, the formal changes will be provided to Belgocontrol as the PHP Ticketing Application provider. The corresponding documentation will also be updated. The changes will be also presented in the DMG report to METG.

#### *WP05 – Agreed non-AOP aerodromes*

As required by METG, an action plan should be defined to determine how to deal with agreed exchanged non-AOP aerodromes OPMET data, as the eANPs do not take into consideration those data anymore. P. Simon presented to the group the work that has been done by France, Austria and UK on this matter.

The paper presented a proposal for a set of actions:

- derive a RODEX heading list (based on the current routing tables of the three ROCs)
- extract the location indicators of the non-AOP aerodromes (the complete list of location indicators from the monitoring results and then filtered against AOP aerodromes published in eANP)
- define procedure for dealing with new requirements (DMG focal point – ICAO – State, then METNO procedure)
- publish the non-AOP aerodromes list (the group agreed that the place was the DMG website)
- identify bulletins with mixed AOP and non-AOP data and propose States to take action to separate these



The group expressed his acceptance on these set of actions that will be presented next MOG/SADIS meeting. The detailed set of actions still need to be fully defined upon before presentation to METG.

### *WP13 – Monitoring Results*

H. Swinnen presented to the DMG members the details of the latest monitoring exercise in February 2017, followed by the presentation of the results grouped in different work packages. The results were presented in different work packages highlighting the availability of data and possible routing problems. The three ROCs will analyse and derive the necessary actions for solving the deficiencies.

Regarding the location indicators used in deriving the results, it was noted that an updated official source was desirable. C. Keohan provided during the meeting an updated list of the location indicators from eANP. This will be used to check and update, if necessary, the monitoring results, which will be presented to DMG21.

Action DMG20-6-5: H. Swinnen will use the updated list of location indicators to check the monitoring results and provide, as necessary, an updated WP at DMG21.

Action DMG20-6-6: The 3 ROCs will check the workbooks with the monitoring results from the Feb 2017 monitoring to depict the routing deficiencies, and in particular with respect to the METNO procedure

Action DMG20-6-7: The PHP manager will derive new tickets and update the existing ones to address problems highlighted by the February 2017 monitoring.

Regarding the SADIS monitoring, it was noted that results from EBBR and LROM were received and compared and these proved to be very consistent. It was agreed that for the next monitoring exercises, these two results will be merged to provide the SADIS FTP monitoring results from the client side to the provider, for comparison and quality control against the monitoring results at the gateway.

Action DMG20-6-8: H. Swinnen and L. Brojboiu will continue providing the SADIS FTP monitoring results which will be merged together. P. Simon will filter the monitoring results from Toulouse to AFTN only.

There was questioned whether there is still a need for two monitoring exercises per year, or those could be reduced to only one, taking into account the current progress recorded with regard to data distribution. The group agreed on the following action:

Action DMG20-6-9: H. Swinnen will present to DMG21 a WP on the re-organization of the OPMET monitoring exercises, with the intent to provide the necessary details and benefits for proposing to METG the reduction to only one monitoring exercise per year.

There was also mentioned that the monitoring results provided in the workbook DMG20 WP13 - OPMET\_Bulls\_Routine\_eANP\_02032017.xlsx could be used to easily depict required and not-required data present in the same bulletin, in support of last action from WP05.

### *WP14 ICAO OPMET Performance*

H. Swinnen presented to the group the method applied as a first attempt for the calculation of METAR and TAF Availability and Timeliness according to the ICAO EUR directives and DMG19 discussions. There were presented in detail the defined metrics, the OPMET monitored data used for calculations and the resulted performance indices. The results for availability and timeliness of METAR and TAF data for required AOP aerodromes were presented in separate workbooks.

The group considered that the results, as they were described, were suitable to be presented to METG, with a prior revision by the DMG members.

Action DMG20-6-10: The DMG members will analyse the metrics (formulas) used to derive the performance indices and provide remarks or proposals for update or correction if applicable.

#### *WP03 – App D – eANP vol III*

Action DMG20-6-11: The DMG members will submit their comments/remarks to C. Keohan regarding the METAR/TAF tables in eANP vol. III until June. A WP will be presented to DMG21 with the updated proposal for the format of the eANP vol III (including technical explanations and also the results) in order to be presented to METG.

With regard to the SIGMET availability indices, it was agreed the following action:

Action DMG20-6-12: P. Simon will re-do a monitoring of SIGMET messages for a period of 5 months and compare with the existing results already provided in WP03 – App. D. An update of the WP will be presented next DMG.

The monitoring will only deal with the availability and will not look into the SIGMET format (this could be considered though if time will permit).

Regarding the mismatch between the name of the Copenhagen FIR used in SIGMET message and the one mentioned in Doc 7910, it was agreed that the MWO will need to stick to the name defined in Doc 7910.

Regarding the FIR Petropavlovsk-Kamchatsky, it was mentioned that the same MWO will issue the SIGMETs for both airspaces below and above FL260.

### **Agenda Item 8 - RODEX**

#### *WP08 - ROCs Backup Procedure*

M. Pichler presented current status of the procedure after incorporating the proposed changes to the latest version and the suggested additions.

Regarding the need to address as well the IWXXM exchange, it was agreed that there was no need for a separate part of the procedure, as the only difference will be the addresses used. Recalling the earlier discussion from WP15, it was mentioned that would be the ROCs decision whether to use separate addresses for routing the TAC and the IWXXM data, and a proposal for the addresses format was made based on ICAO Annex 15. France informed, though, that it would use a single address for TAC and IWXXM and that would not be willing to change the current defined addresses in the procedure (LFPWMVIE and LFPWMLON) as these were currently approved by the CAA and were on the way to be implemented. It was noted the importance of implementing the addresses in the coming month. Austria confirmed that the addresses were already in place and just need activation.

Action DMG20-8-1: The implementation of the new AFTN addresses will be completed by the end of April 2017.

Action DMG20-8-2: The three ROCs will check the backup procedure for the technical elements, especially the accuracy of the distribution schema. The revised version will be presented to DMG21 in order to have a consolidated version for inclusion into the DMG report to METG.

There was agreed to replace “quality control” with “syntax check” as that would be in line with what is actually done.

Regarding the RODC development, Mr. Mezred Mohamed informed the group that he will try to analyse what had been done so far and would inform the group whether he could support the project. The existing documentation will be provided to Mr. Mezred.

#### *WP12 NOC Moscow (Presented by Russian Federation)*

The Russian Federation delegates informed the group about a number of aspects related to the continuous efforts to improve the aeronautical meteorological support system. There were mentioned progress related to the activities of Moscow WMC within WMO scope, acting as a GISC, but also efforts made in support of SWIM implementation. In this regard, there were presented aspects related to IWXXM exchange implementation, including conversion from TAC to IWXXM and planned bi-lateral tests of IWXXM data exchange with Belarus and states from Western Europe. It was mentioned that in support of implementing the AFS data exchange, NOC Moscow was carrying out activities to arrange an AMHS telecommunication hub. The DMG meeting was invited to approve further activities of the Russian Federation for the organizational and technological improvement of NOC Moscow in order to become a ROC.

DMG pointed that it was beyond their responsibilities, as stated by the DMG Terms of Reference and Work Program, to approve any further activities. Instead, DMG task was to study the possible improvements, pre-requisites and technical details prior to creation of a new ROC. These aspects were discussed in WP07 below.

#### *WP07 NOC Moscow (Presented by DMG Chairman)*

According to the task from METG26, DMG investigated the possible improvements, pre-requisites and technical and documentation changes prior to creation of a new ROC for the PTEAST States. The advantages identified were: the fact that currently NOC Moscow already performed tasks of a ROC (as collection, compilation and distribution of OPMET data), the possibility of a better comprehension and implementation of the ICAO regulations in that region by organisation of meetings or workshops (without the language barrier), the possible implementation of the AFS in the whole Eastern part of Europe for MET data exchange (thus creating possibilities for backup purposes, not available now).

The main disadvantages were related to the needed changes of the current well established RODEX system, including the update of the procedures and documentation, definition and implementation of transition plans, prerequisites in place prior to the effective transition.

The possible area of responsibility for the resulting ROC centres was presented in the Appendices to the WP.

Regarding the pre-requisites there was noted:

- on technical changes: the implementation of AFTN ( or extended AMHS before amd 78), establish 24hr team, supervisor.
- Transition plans: implementation of new routing, adapting of the backup procedure, documentation
- Regulations: respect of all ICAO regulations ( annexes, RANP, etc ...) and initial review of this respect

During the discussions it was pointed that, in support of the proposal to METG for the new ROC implementation, the benefits could be highlighted, but prerequisites shall be in place. As pointed earlier, the main benefit would be the implementation of OPMET data exchange using AFS in the region. With respect to that, an Action plan would be defined and the progress monitored. In the action plan, two steps could be proposed: implementation of AFS links between Moscow and the other 3 ROCs as a first step (mandatory), and implementation of AFS links between Moscow and the other states in the region as a second one with the adoption of an action plan with measurable steps.

The foreseen schedule will be a presentation to next METG meeting. If agreement on the proposed process by METG/27, the establishment of a complete action plan referring to agreed steps (including documentation modification to be in place, transition plan with states, back-up elements) will be defined by DMG next year and finally proposed to METG/28, after completion of the prerequisites.

In order to obtain a view of the current plans for migration from GTS to AFS, in support of the proposal that is going to be made to METG, it was appreciated that some early information could be obtained during the PTEAST meeting in June. It was also worth mentioning the benefits that this migration would induce.

Action DMG20-8-3: C. Keohan will ask States participating to the PTEAST meeting (15-16 June 2017) on the planned migration from GTS to AFS for OPMET data exchange, and present to DMG21 the information. M. Pichler will prepare an IP for PTEAST meeting highlighting the potential benefits brought in place by transition to AFS.

Action DMG20-8-4: DMG members will work to consolidate the proposal to be made to METG/27 regarding the possible implementation of ROC Moscow.

Based on the agreement of METG/27 with the proposed principles, work can be done during the next year to elaborate the Action Plans and cover all elements, such that these could be submitted to METG/28 for final approval.

#### *WP09 – Distribution Determination*

M. Pichler presented to the group the updates made to the Distribution Determination document, in collaboration with H. Swinnen, Wim Demol and G. Easthope. There were derived a number of use cases for the document, structured as per type of user (ROC, NOC, RODB) and the updated tables were already available on the DMG website. There was questioned whether all information in Appendix E should be also made available.

Action DMG20-8-5: The DMG members will submit to M. Pichler their comments/proposals for amendment or update to the Distribution Determination tables. Based on these, G. Easthope, W. Demol and M. Pichler will present a consolidated paper to DMG21 to be discussed before presentation to METG27.

### **Agenda Item 12: Next DMG Meetings**

#### *Dates and location of the next meetings*

DMG21: 27-29 June 2017, St. Petersburg

DMG22: 24-26 October 2017, Cluj-Napoca (Romania)

DMG23: 13-15 March 2018, Algeria

DMG24: June 2018, Vienna

### **Agenda Item 13: Any Other Business**

The group was informed by G. Easthope on a VA Advisory test exercise planned for 9 May by VAAC London.

## List of actions resulted after DMG20

| Ag. Item/BMG     | Action item  | Responsible                           | Target date |
|------------------|--|---------------------------------------|-------------|
|                  | <b>DMG16</b>   |                                       |             |
| DMG16-4-5        | Obtain the headers for Special AIREP messages used by Malta.   | P. Simon                              | DMG21       |
| DMG16-5-7        | Progress report on the development of software applications for depiction of systematic TAC coding errors  | P. Simon                              | DMG18       |
|                  | <b>DMG17</b>   |                                       |             |
| DMG17-5-2        | Inform permanently DMG on the changes that WG-MIE adopt for the Guidelines, in order that the regional document be updated accordingly.  | P. Simon<br>C. Tyson                  | Permanent   |
| DMG17-4-4        | Cross-check the SIGMET headers database provided by ICAO with the results of a 3 month monitoring period   | P. Simon<br>C. Keohan                 | DMG18       |
|                  | <b>DMG18</b>   |                                       |             |
| DMG18-3-1        | Implement the new AFTN addresses by DMG19  | ROCs                                  | DMG19       |
| DMG 18-6-1       | Investigate on the RQM coming from Portugal  | P. Simon                              | DMG19       |
|                  | <b>DMG19</b>   |                                       |             |
| DMG19-5-5        | Derive statistics regarding the IWXXM traffic volumes during the peak hours - present an IP.   | P. Simon                              | DMG20       |
| DMG 19-6-1       | Derive results for timeliness conformity of non-EUR data, based on February 2017 monitoring. The results will be analysed by each of the three ROCs for data coming from its region and a WP will be presented at DMG21. | W. Demol<br>3 ROCs                    | DMG21       |
| DMG 19-6-5       | Obtain information from ICAO MET Panel regarding the monitoring of Special AIREP messages and inform accordingly at the next DMG meeting (either a WP or verbally, depending on the outcome).                            | C. Keohan                             | DMG20       |
| DMG19-6-6        | Inform METG that the requirement for TAF availability 30min before validity is not present anymore in the ANP and ask for guidance on the matter, as well as for the frequency of METAR messages.                        | P. Simon                              | METG        |
|                  | <b>DMG20</b>   |                                       |             |
| DMG20-3-1        | Perform a new monitoring regarding the SPECIAL AIREP used and present the results to METG in order to take action  | P. Simon                              | METG27      |
| DMG20-4-1        | Invitation to DMG members to participate to the IWXXM workshop for a meeting on 16 May in ICAO Paris RO  | P. Simon                              | April 2017  |
| DMG20-5-1        | Compile a list of open questions related to IWXXM implementation (contributions from DMG members are expected). A study note will be presented to WG-MIE in July 2017 (or during one of the next webex meetings)         | W. Demol<br>M. Pichler<br>G. Easthope | DMG21       |
| DMG20-5-2        | Work on possible scenarios for a transitional period for IWXXM data exchange implementation (ROC London) and present an IP to DMG21  | W. Demol<br>G. Easthope               | DMG21       |
| <u>DMG20-6-1</u> | ROC London will check the routing of the bulletins identified by the ASIA/PAC SIGMET monitoring Nov.   | G. Easthope                           | DMG21       |

|            |  |                           |                    |
|------------|--|---------------------------|--------------------|
|            | 2016 and will derive PHP tickets as necessary  |                           |                    |
| DMG20-6-2  | Derive a list of reports present in both US and non-US compiled bulletins and provide that to G. Easthope for further investigation.   | L. Brojboiu               | April 2017         |
| DMG20-6-3  | Informal discussion with the US representatives during the MOG/SADIS meeting in order to address the issue with missing keyword in the beginning of reports as well as possibility of duplication suppression  | G. Easthope               | MOG/SADIS          |
| DMG20-6-4  | WP to DMG21 with the updates to the PHP Ticketing Application  | G. Easthope<br>W. Demol   | DMG21              |
| DMG20-6-5  | Use the updated list of location indicators to check the monitoring results and provide, as necessary, an updated WP at DMG21  | H. Swinnen                | DMG21              |
| DMG20-6-6  | The 3 ROCs will check the workbooks with the monitoring results from the Feb 2017 monitoring to depict the routing deficiencies, and in particular with respect to the METNO procedure.  | ROCs                      | DMG21              |
| DMG20-6-7  | Derive new tickets and update the existing ones to address problems highlighted by the February 2017 monitoring  | PHP manager               | DMG21              |
| DMG20-6-8  | Continue providing the SADIS FTP monitoring results.<br>P. Simon will filter the monitoring results from Toulouse to AFTN only   | H. Swinnen<br>L. Brojboiu |                    |
| DMG20-6-9  | WP on the re-organization of the OPMET monitoring exercises, with the intent to provide the necessary details and benefits for proposing to METG the reduction to only one monitoring exercise per year  | H. Swinnen                | DMG21              |
| DMG20-6-10 | Analyse the metrics (formulas) used to derive the performance indices and provide remarks or proposals for update or correction if applicable  | DMG members               | DMG21              |
| DMG20-6-11 | Submit comments/remarks to C. Keohan regarding the METAR/TAF tables in eANP vol. III.<br>WP to DMG21 with the updated proposal for the format of the eANP vol III (including technical explanations and also the results) in order to be presented to METG | DMG members<br>C. Keohan  | June 2017<br>DMG21 |
| DMG20-6-12 | Re-do a monitoring of SIGMET messages for a period of 5 months and compare with the existing results already provided in WP03 – App. D.  | P. Simon                  | DMG21              |
| DMG20-8-1  | Implementation of the new AFTN addresses   | ROCs                      | April 2017         |
| DMG20-8-2  | Check the backup procedure for the technical elements, especially the accuracy of the distribution schema. The revised version will be presented to DMG21 in order to have a consolidated version for inclusion into the DMG report to METG                | ROCs                      | DMG21              |
| DMG20-8-3  | Ssk States participating to the PTEAST meeting (15-16 June 2017) on the planned migration from GTS to AFS for OPMET data exchange.<br>IP for PTEAST meeting highlighting the potential benefits brought in place by transition to AFS                      | C. Keohan<br>M. Pichler   | DMG21<br>June 2017 |
| DMG20-8-4  | Work to consolidate the proposal to be made to METG/27 regarding the possible implementation of ROC Moscow   | DMG members               | DMG21              |
|            |  |                           |                    |
|            |  |                           |                    |