



**INTERNATIONAL CIVIL AVIATION ORGANIZATION  
MIDDLE EAST REGIONAL OFFICE**

**INTER-REGIONAL OPMET DATA EXCHANGE WORKSHOP**

*(Vienna, Austria, 23 - 24 October 2014)*

**SUMMARY OF DISCUSSIONS**

**1. INTRODUCTION**

1.1 The Inter-regional OPMET Data Exchange Workshop was successfully held in Vienna, Austria from 23 – 24 October 2014 as a follow-up to the ROC implementation workshop held in Jeddah, Saudi Arabia from 31 August to 1 September 2014. This event was organized by Austro Control (Austrian Air Navigation Service Provider), who hosted the meeting, in partnership with ICAO.

1.2 The Workshop was attended by a total of ten (10) participants from three (3) States (Austria, Bahrain and Saudi Arabia). The list of participants is at **Appendix A** to this Summary of Discussions.

1.3 International exchange of OPMET data is used extensively for flight planning and at times tactical decision making by airlines. The timely availability of OPMET data from the MID Region is essential to safety and efficiency of flight. In order to assure required OPMET data as per the Regional Air Navigation Plan is efficiently exchanged in the MID Region and with other Regions, MIDANPIRG/14 Conclusion 14/30 called for the establishment of a MID Regional OPMET Centre in Saudi Arabia (Bahrain as backup) in coordination with ICAO in the first half of 2015.

1.4 The Inter-regional OPMET Data Exchange Workshop provided experience gained by ROC Vienna that included a tour of ROC Vienna. This tour provided explanation of tasks performed by operators at ROC Vienna, such as correcting messages, handling SVC (Service Messages) received from the SADIS Gateway in regard to e.g. missing reports. The implementation plan developed at the ROC implementation workshop was refined to reduce the risk of ROC implementation for Jeddah and Bahrain (backup). Lastly, the first draft backup procedures for ROC Jeddah and Bahrain were developed.

1.5 Mr. Michael Pichler, MET Data and Info Management of Austro Control as well as Mr. Roland Hochreiter, System Manager AIM/MET of Austro Control conducted the Workshop and supported by Mr. Christopher Keohan, ICAO Regional Officer, Meteorology (MET).

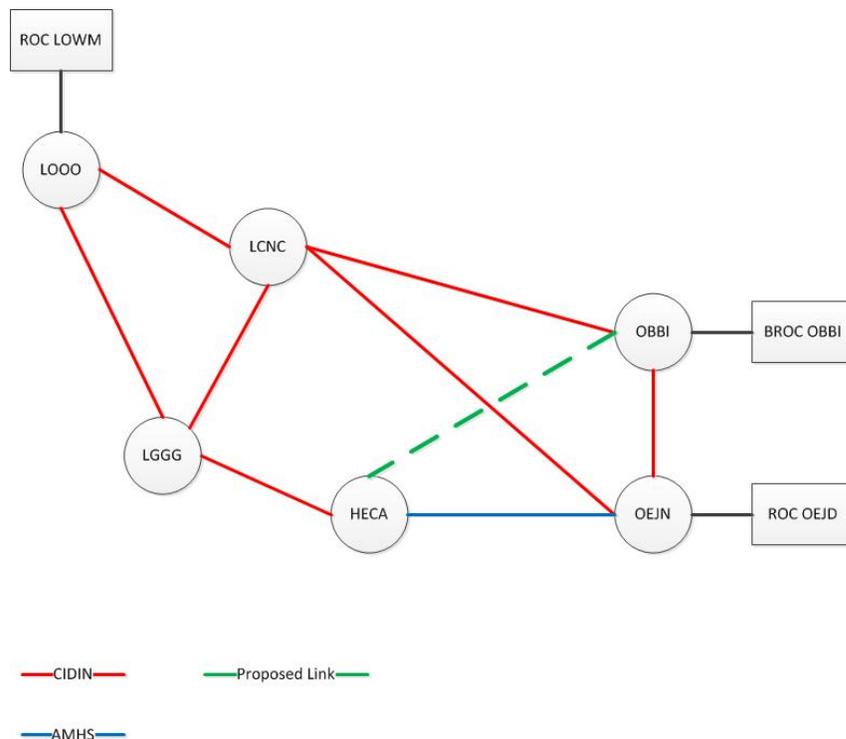
**2. DISCUSSION**

2.1 The Workshop included two days of presentations (23-24 October 2014) covering ROC topics such as function of service control centre, implementation plan, deficiencies related to

multiple occurrences of OPMET in various bulletins and multiple bulletins, backup procedures, and developments regarding training and documentation and review of action plan. The Workshop Programme is attached to this Summary of Discussion at **Appendix B**.

2.2 The Workshop agreed to the following actions related to an implementation plan of establishing a ROC in the MID Region:

- 1) The Secretariat would coordinate with the MID CNS SG Secretariat and EUR AFSG Chair on fulfilling MID CNS Sub-Group draft Conclusion 6/4 that tasked the MID AMC to develop a plan to implement **AMHS communication paths** between Jeddah - Vienna and Bahrain – Vienna before 31 March 2015. This would enable the exchange of OPMET data in digital form between the MID and EUR Regions. The Secretariat would emphasize that Nicosia and Athens consider implementation of AMHS capabilities, preferably in 2015. Once that is available, existing CIDIN links could be upgraded to AMHS. A direct AMHS connection between Bahrain and Cairo would also facilitate in the exchange and backup exchange of OPMET data in digital form. Below is a diagram of the current communication capabilities.



- 2) Mr. Roland Hochreiter explained the principle and advantages of **Collective Addresses** as used in the EUR region. The advantage is that behind the collective address one or more AFTN-addresses can be defined to route the data to. Those addresses can be easily altered by operators of the COM-centre to facilitate e.g. re-routing in case of an outage. AFTN collective addresses to be used to collect OPMET data within the MID Region and for the exchange of OPMET data inter-regionally were determined as follows:

- OEZZMMID – MID OPMET data sent to Jeddah

- OBZZMMID – MID OPMET data sent to Bahrain
- OEZZMEUR – EUR OPMET data sent to Jeddah from Vienna
- OBZZMEUR – EUR OPMET data sent to Bahrain from Vienna

For other inter-regional exchange, simply replace EUR with ASI (for Asia/Pacific – e.g. OEZZMASI for Asia/Pacific OPMET data sent to Jeddah from Bangkok), NAM (for North America and Caribbean), SAM (for South America) and AFI (for Africa).

- 3) **Distribution of data in the Gulf States** may no longer use a collective bulletin provided by Bahrain and each State should send their required OPMET as per FASID Table MET 2A to Jeddah and Bahrain directly using bulletin numbers 01-39 and their respective State designators;
- 4) During the workshop **Bahrain** completed the **implementation form** as provided at **Appendix C** which showed the actions (e.g. coordination with MID States and other Regions in order to increase the efficiency of OPMET data exchange) they need to take in support to the implementation of a Regional OPMET Centre in the MID Region;
- 5) A **subset of first tier implementation States** (Bahrain, Kuwait, Oman, Qatar and the United Arab Emirates) were identified to utilize the implementation form such as that completed by Bahrain. These States would provide their **implementation plan, preferably by the beginning of December 2014 (Bahrain end of November 2014)**;
- 6) After 5) has been completed correctly, a **State letter** would be sent to the **remaining States** (Egypt, Iraq, Iran, Jordan, Lebanon, Libya, Syria, Sudan and Yemen) with instructions on providing the first inputs for completing the **implementation plan**, with staggered deadlines as described in the action plan at **Appendix D**;
- 7) **Draft ROC backup plan was developed** by Saudi Arabia as provided at **Appendix E**. In addition, the draft backup plan for the EUR Region was provided and will be available on the ICAO MID RO website;
- 8) **Saudi Arabia to revise bulletins** such that OPMET listed in FASID Table MET 2A are provided in bulletins with the series 01-39 (not 40-49, which is used for national and bi-lateral exchange);
- 9) **ROC Vienna to provide EUR OPMET data to ROC Jeddah and Backup ROC Bahrain** by the end of 2014 noting individual MID States need to communicate to Jeddah what OPMET from EUR they need based on users (part of implementation form);
- 10) ROC Vienna will support ROC Jeddah and Backup ROC Bahrain in **developing training for ROC operators** as well as **provide a job description for these operators by April 2015**;

2.3 A diagram of the future OPMET data exchange scheme in the MID Region is provided at **Appendix F**.

2.4 The participants have also been given information on the graphical tool, called NAGIOS, used to monitor the status of the different systems. This tool is available for free and can be customized by the user to display all relevant system information.

2.5 The workshop noted that both ROC Jeddah and Backup ROC Bahrain would focus on the exchange of OPMET data in digital form after both ROCs are implemented and functioning well.

2.6 The Workshop was provided with closing remarks by Mr. Michael Pichler of Austro Control.

### **3. CONCLUSION**

3.1 The participants thanked Austro Control for organising and hosting the Workshop and for their hospitality.

3.2 All the materials presented during the Workshop have been posted on the ICAO MID website: <http://www.icao.int/mid/>.

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International Civil Aviation Organization

**INTER-REGIONAL OPMET EXCHANGE WORKSHOP**

*(Vienna, Austria, 23-24 October 2014)*

**LIST OF PARTICIPANTS**

24 October 2014

| <b>NAME</b>  | <b>TITLE &amp; ADDRESS</b>   |
|--|--|
| <b>STATES</b><br><br><b>AUSTRIA</b><br><br>Mr. Roland Hochreiter | <br><br><br><br>System Manager AIM/MET<br>Austro Control GmbH<br>Schnirchgasse 11<br>1030 Vienna,<br>Austria<br>Fax: (43) 51703 2536<br>Tel: (43) 51703 2540<br>Mobile: (43) 664 8321 167<br>Email: roland.hochreiter@austrocontrol.at |
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| NAME   | TITLE & ADDRESS  |
|--|--|
| <p><b>SAUDI ARABIA</b><br/>Mr. Fahad Awad Al-Malki</p> | <p>Consultant to President of<br/>Presidency of Meteorology and Environment<br/>P.O.Box 1116<br/>Makkah 21955 - SAUDI ARABIA<br/>Tel: (966-12) 6536060<br/>Mobile: (966-55) 554 4014<br/>Email: fahadmalki@hotmail.com</p>   |
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| <p>Mr. Saad Abdullah Al Zahrani</p>                    | <p>CNS/ATM Manager<br/>General Authority of Civil Aviation<br/>CNS/ATM Department<br/>KINGDOM OF SAUDI ARABIA<br/>Fax: (966-12) 6717 717 Ext 1594<br/>Tel: (966-12) 6717 717 Ext 1276<br/>Mobile: (966-5) 5564 5291<br/>Email: <a href="mailto:saalzahrani@gaca.gov.sa">saalzahrani@gaca.gov.sa</a></p>  |
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| NAME                   | TITLE & ADDRESS  |
|------------------------|--|
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## Appendix B - Agenda

### MID-Regional OPMET-Center Workshop

(23./24.October 2014, Vienna)



## Agenda

### Thursday, 23.October 2014:

**09:00-09:30:** Opening the Meeting and Introduction of the Delegates  
Agreeing on the Agenda

**09:30-10:00:** Presentation of SCC (Service Control Center)

**10:00-10:15:** Coffee Break

**10:15-11:15:** Visit ACC (Area Control Centre)

**11:15-12:45:** Visit of the SCC, including ROC Operations Center

**12:45-14:00:** Lunch Break

**14:00-15:30:** Discussion of Equipment, Lines and Preparation of Procedures

**15:30-16:00:** Coffee Break

**16:00-17:00:** Discussion of Training, Documentation and Manpower needed at ROC

### Friday, 24.October 2014:

**09:00-10:30:** Review of the MID ROC Workshop in Jeddah  
Review the usability of the proposed form and procedure  
Backup Procedure between Jeddah and Bahrain

**10:30-11:00:** Coffee Break

**11:00-12:30:** Continue Discussions

**12:30-13:30:** Lunch Break

**13:30-15:00:** Continue Discussions

**15:00-15:30:** Coffee Break

**15:30-16:30:** Continue Discussion

**16:30-17:00:** Any other Business  
Closure of the Workshop



**Appendix C – implementation form (MID ROC Work Package)**

| MID-ROC Work Package        |                       |                          |          |                       |  |
|-----------------------------|-----------------------|--------------------------|----------|-----------------------|--|
| <b>MRWP Title:</b>          | Transition of NOC xxx |                          |          |                       |  |
| <b>Project Manager:</b>     |                       |                          |          |                       |  |
|                             | Phone:                |                          | E-Mail   |                       |  |
| <b>Reporting Frequency:</b> | Monthly               | <b>Date:</b>             | ../../.. | <b>MRWP Version:</b>  |  |
| <b>MRWP Start Date:</b>     | ../../..              | <b>MRWP Finish Date:</b> | ../../.. | <b>MRWP Duration:</b> |  |

| Contact Information   |          |       |        |
|-----------------------|----------|-------|--------|
| Role:                 | Name:    | Phone | E-Mail |
| MRWP Manager Jeddah   |          |       |        |
| MRWP Manager Khartoum |          |       |        |
| ROC Jeddah            | Operator |       |        |
| NOC Khartoum          | Operator |       |        |
| ?I/R-contacts?        |          |       |        |



## Transition Part 1

| MRWP Part 1/1: OPMET Data provided by NOC (to be filled in by NOC) |      |             |              |  |     |
|--|------|-------------|--------------|--|-----|
| TT   | CCCC | Header      | AOP<br>(Y/N) | International AFTN-Addresses the bulletin is sent to |     |
|  |      |             |              | AFTN   | GTS |
| SA   | OBBI | SABN31 OBBI | Y            | <b>EUR:</b>  |     |
| SA   | OEDF | SABN31 OBBI |              | LOZZMMID   |     |
| SA   | OEDR | SABN31 OBBI |              | <b>Bahrain:</b>                                      |     |
| SA   | OTBD | SABN31 OBBI |              | OBBIATIS OBBICONS OBBIFICX                           |     |
| SA   | OTHH | SABN31 OBBI |              | OBBIGFAF OBBIGFHO OBBIGFAX                           |     |
| SA   | OKBK | SABN31 OBBI |              | OBBIXHAX OBBIIYIX OBBIYTYX                           |     |
| SA   | OMAA | SABN32 OBBI | Y            | OBBIYWYX OBBIZKZX OBBSYMYX                           |     |
| SA   | OMAD | SABN32 OBBI |              | OBKHYFYX OBKHZPZX OBKHZTZX                           |     |
| SA   | OMAL | SABN32 OBBI |              | OBZZYPYX   |     |
| SA   | OMDB | SABN32 OBBI |              | <b>MID:</b>  |     |
| SA   | OMDW | SABN32 OBBI |              | OEDFYMYX OEDFZPZX OEZZYPYX                           |     |
| SA   | OMFJ | SABN32 OBBI |              | OIMMIRCX OIZZYPYS OIZZYPYX                           |     |
| SA   | OMRK | SABN32 OBBI |              | OKBKMYX OLBAYVYX OLLLYPYX                            |     |
| SA   | OMSJ | SABN32 OBBI |              | OMAAVMFD OMAEATCC OMAMYMYX                           |     |
| SA   | OOMS | SABN32 OBBI |              | OMAMYWYX OMZZYPYX OOMMZQZX                           |     |
| SA   | OOSA | SABN32 OBBI |              | OOMSYHYX OOMSZTZX OZZYPYX                            |     |
| FT   | OBBI | FTBN31 OBBI | Y            | OTBDYFYX OTBDYMYX OTBDYWYX                           |     |
| FT   | OEDF | FTBN31 OBBI |              | OTHHYFYX OTHHYMYX OTHHYWYX                           |     |
| FT   | OEDR | FTBN31 OBBI |              | <b>ASI/PAC:</b>                                      |     |
| FT   | OTBD | FTBN31 OBBI |              | OPZZYPYX VGHSYMYX VGHGYMYX                           |     |
| FT   | OTHH | FTBN31 OBBI |              | VGHSYPYX VHZZYPYX VTBBYPYX                           |     |
| FT   | OMAD | FTBN32 OBBI | Y            | YBBYPYM WSZZYPYX YBZZSPYX                            |     |
| FT   | OMAL | FTBN32 OBBI |              | NZZZYPYX   |     |
| FT   | OMDB | FTBN32 OBBI |              | <b>EUR:</b>  |     |
| FT   | OMDW | FTBN32 OBBI |              | LCRAYWYW LOZZMMID                                    |     |
| FT   | OMFJ | FTBN32 OBBI |              | <b>Bahrain:</b>                                      |     |
| FT   | OMRK | FTBN32 OBBI |              | OBBIZKZX OBBSYMYX OBKHZTZX                           |     |
|  |      |             |              | OBZZYPYX OBBIGFAO OBBIGFAX                           |     |
|  |      |             |              | OBBIXHAX OBBIIYIX OBBIYMYX                           |     |
|  |      |             |              | OBBIYTYX OBBIYZYX                                    |     |
|  |      |             |              | <b>MID:</b>  |     |
|  |      |             |              | OYSNIYEX OYSNYMYX OMAEATCC                           |     |
|  |      |             |              | OMAMYWYX OMZZYPYX OZZYPYX                            |     |
|  |      |             |              | OPZZYPYX ORBSYPYX OTBDYWYX                           |     |
|  |      |             |              | OTBDYFYX OTBDYMYX OTHHYFYX                           |     |
|  |      |             |              | OTHHYMYX OTHHYWYX OEDFZPZX                           |     |
|  |      |             |              | OETDYPYX OEZZYPYX OIIYYPYX                           |     |
|  |      |             |              | OIZZYPYS OKBKMYX OLLLYPYX                            |     |
|  |      |             |              | OMAAVMFD   |     |
|  |      |             |              | <b>ASI/PAC:</b>                                      |     |
|  |      |             |              | RJAAYPYX RKSSYMYX RKSSYPYX                           |     |



|    |      |             |  |   |  |
|----|------|-------------|--|---|--|
| FT | OMSJ | FTBN32 OBBI |  | RPLLYMYX VABBYPYX VCBIYMYX<br>VGEGYMYX VGHSYMYX NGHSYPYX  |  |
| FT | OOMS | FTBN32 OBBI |  | VHZZYPYX NZKLYMYX NZZZYPYX<br>VIDPYMYX VRMMYMYX VTBBYPYX  |  |
| FT | OOSA | FTBN32 OBBI |  | WARRYMYX WIMMYMYF WIMMYMYX<br>WSZZYPYX WSZZYPYQ YBBYPYX   |  |
| FT | OMAD | FTBN32 OBBI |  | ZBBYPYX   |  |
| WS | OBBS | WSBN31 OBBI |  | EUR:<br>LGATYMYX LOZZMMID LCLKYMYX<br>Bahrain:<br>OBBICONS OBBIFICX OBBIGFAX<br>OBBIXHAX OBBIYMYX OBBIYTYX<br>OBBSYMYX OBBSYWYX OBZZYPYX<br>MID:<br>HECAYMYX OEDFZPZX OEJDYMYX<br>OIZZYPYS OMAAYMYX OMAMYWYX<br>OMZZYPYX OZZZYPYX OSDIYMYX<br>ASIA/PAC:<br>OPKCYMYX VABBYMYX VIDPYMYX<br>NZKLYMYX<br>NAM:<br>KWBCYMYX |  |
| WV | OBBS | WVBN31 OBBI |  |   |  |
| WC | OBBS | WCBN31 OBBI |  |   |  |

| MRWP Part 1/2: Routing Test   |          |                  |
|---|----------|------------------|
| ROC Jeddah to set up routing for OPMET data actually not received to Vienna IROG Test-address LOZZXMID  |          |                  |
| <b>Done:</b>  | (Yes/No) | <b>Comments:</b> |
|   |          |                  |
| NOC to activate routing of actually not send OPMET data to Jeddah Test-address (OEZZMMIV) as well as to B-ROC (Backup-ROC) Bahrain (OBBIROCT) |          |                  |
| <b>Done:</b>  | (Yes/No) | <b>Comments:</b> |
|   |          |                  |
| Vienna to check reception of OPMET data.  |          |                  |
| <b>Reception O.K.:</b>  | (Yes/No) |                  |
|   |          |                  |
| <b>Experienced problems:</b>  |          |                  |
| <b>Co-ordinated date to switch to operational address LOZZMMID:</b>   | xx/xx/xx |                  |



| MRWP Part 1/3: Co-ordination with centres to which NOC is providing OPMET-data directly |   |                              |             |
|---|---|------------------------------|-------------|
| OPMET data provided to  | Bulletin(s) provided  | Co-ordinated transition date | Done? (Y/N) |
| Cairo   | WSBN31 OBBI   |                              |             |
| Damascus  | WSBN31 OBBI   |                              |             |
| Teheran   | SABN31 OBBI<br>SABN32 OBBI<br>FTBN31 OBBI<br>FTBN32 OBBI<br>WSBN31 OBBI |                              |             |
| Kuwait  | SABN31 OBBI<br>SABN32 OBBI<br>FTBN31 OBBI<br>FTBN32 OBBI                |                              |             |
| Beirut  | SABN31 OBBI<br>SABN32 OBBI<br>FTBN31 OBBI<br>FTBN32 OBBI                |                              |             |
| Abu Dhabi   | SABN31 OBBI<br>SABN32 OBBI<br>FTBN31 OBBI<br>FTBN32 OBBI<br>WSBN31 OBBI |                              |             |
| Muscat  | SABN31 OBBI<br>SABN32 OBBI<br>FTBN31 OBBI<br>FTBN32 OBBI<br>WSBN31 OBBI |                              |             |
| Doha  | SABN31 OBBI<br>SABN32 OBBI<br>FTBN31 OBBI<br>FTBN32 OBBI<br>WSBN31 OBBI |                              |             |
| Sanaa   | SABN31 OBBI<br>SABN32 OBBI<br>FTBN31 OBBI<br>FTBN32 OBBI                |                              |             |



MRWP Part 1/4: Co-ordination with other regions

| Region                | Bulletin(s) provided                                     | Co-ordinated transition date | Done? (Y/N) |
|-----------------------|--|------------------------------|-------------|
| ASIA/PAC<br>(Bangkok) | SABN31 OBBI<br>SABN32 OBBI<br>FTBN31 OBBI<br>FTBN32 OBBI |                              |             |
| NAM<br>(Washington)   | WSBN31 OBBI  |                              |             |

**MRWP Part 1/5:** The routing information for all OPMET data from the NOC has to be shared with BROC Bahrain to enable the preparation of the backup routing in case of a ROC Jeddah failure.



## Transition Part 2

| <b>MRWP Part 2/1: Actual received OPMET data by Bahrain from outside MID-region (to be filled in by Bahrain)</b> |                      |   |                                      |
|--|----------------------|---|--------------------------------------|
| <b>Bulletin Header<br/>TTAAii CCCC</b>   | <b>Received from</b> | <b>Bulletin includes FASID<br/>MET 2-A data (for routine<br/>data only)<br/>(Y/N)</b> | <b>Received<br/>by ROC<br/>(Y/N)</b> |
| FCFR22 LFPW  | Vienna               |   | Y                                    |
| FTBU31 LBSM  | Vienna               | Y   | Y                                    |
|  |                      |   |                                      |
|  |                      |   |                                      |
|  |                      |   |                                      |
|  |                      |   |                                      |

| <b>MRWP Part 2/2: Co-ordination with centres providing data to NOC but not to ROC</b> |                                     |                                       |   |   |                        |
|---|-------------------------------------|---------------------------------------|---|---|------------------------|
| <b>Contact details of centre</b>  | <b>Bulletin provided<br/>to NOC</b> | <b>Received<br/>by ROC?<br/>(Y/N)</b> | <b>Received<br/>by B-ROC?<br/>(Y/N)</b> | <b>Co-ordinated<br/>transition<br/>date</b> | <b>Done?<br/>(Y/N)</b> |
|   |                                     |                                       |   |   |                        |
|   |                                     |                                       |   |   |                        |
|   |                                     |                                       |   |   |                        |
|   |                                     |                                       |   |   |                        |
|   |                                     |                                       |   |   |                        |

**MRWP Part 2/3:** The routing information for all OPMET sent to the NOC has to be shared with BROCC Bahrain to enable the preparation of the backup routing in case of a ROC Jeddah failure.



## Transition Part 3

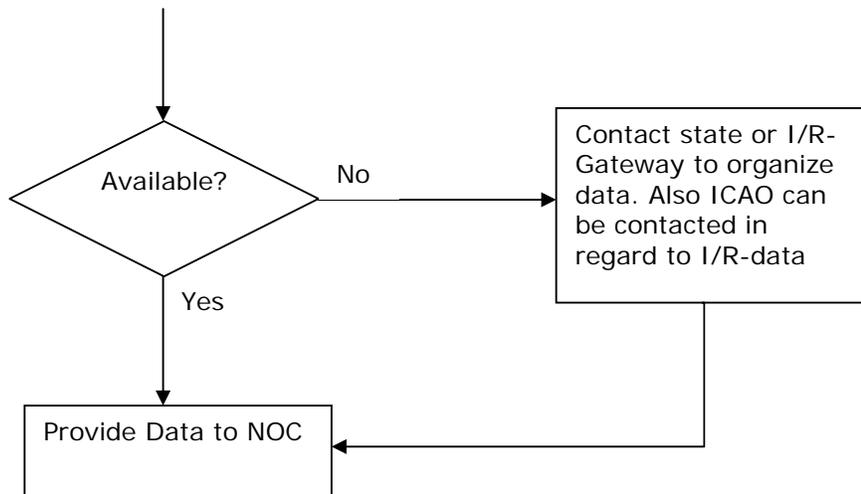
### Routine Data

| Required Routine Data<br><i>(filled in by NOC)</i> |                    | Result of investigation by ROC Jeddah |                      |                   |          |
|--|--------------------|---------------------------------------|----------------------|-------------------|----------|
| Data Type  | Location Indicator | In FASID MET-2A (Y/N)                 | Data available (Y/N) | Made available at | Comments |
|  |                    |                                       |                      | xx/xx/xx          |          |
|  |                    |                                       |                      |                   |          |
|  |                    |                                       |                      |                   |          |
|  |                    |                                       |                      |                   |          |
|  |                    |                                       |                      |                   |          |
|  |                    |                                       |                      |                   |          |

### Non-Routine Data

| Required Non-Routine Data<br><i>(filled in by NOC)</i> |               | Result of investigation by ROC Jeddah |                   |          |
|--|---------------|---------------------------------------|-------------------|----------|
| Data Type  | FIR Indicator | Data available (Y/N)                  | Made available at | Comments |
|  |               |                                       | xx/xx/xx          |          |
|  |               |                                       |                   |          |
|  |               |                                       |                   |          |
|  |               |                                       |                   |          |
|  |               |                                       |                   |          |
|  |               |                                       |                   |          |

**Inform BROCC Bahrain about any new data or changes to the routing table!**



## Appendix D – action plan

Following is a list of tasks to be fulfilled to progress on the transition

The focal point to take care of below action list and keep track of actions is **Dr. Saad Al Majnooni**

| No. | Task   | Responsible                                       | Prerequisite                  | Start Date | Estim. Time | Finish at |
|-----|--|---|-------------------------------|------------|-------------|-----------|
| 1   | Implement Collective Addresses                               | ROC Jeddah & BROCC Bahrain                        | -                             | 24.10.2014 | 1week       |           |
| 2   | Transition Bahrain   | ROC Jeddah & BROCC Bahrain                        | -                             | 27.10.2014 | 1 month     |           |
| 3   | Transition Process with Kuwait                               | ROC Jeddah  | -                             | 02.11.2014 | 1 month     |           |
| 4   | Transition Process with Qatar                                | ROC Jeddah  | -                             | 02.11.2014 | 1 month     |           |
| 5   | Transition Process with Oman                                 | ROC Jeddah  | -                             | 02.11.2014 | 1 month     |           |
| 6   | Transition Process with UAE                                  | ROC Jeddah  | -                             | 02.11.2014 | 1 month     |           |
| 7   | Send Saudi Arabian Compilations to BROCC Bahrain (OBZZMMID)  | Meteorological Communications Centre (MCC) Jeddah | Task No. 1 has to be finished | 02.11.2014 | 1 day       |           |
| 8   | Continue and Finish Transition Sudan                         | ROC Jeddah  | -                             | 01.09.2014 | 4 months    |           |
| 9   | Prepare State Letter to MID-states to facilitate transition  | ICAO Regional Officer                             | After finishing Tasks 2-7     | 01.12.2014 | 4 days      |           |
| 10  | Contact COM Centre Nicosia to coordinate AMHS implementation | ROC Jeddah & BROCC Bahrain                        |                               | 27.10.2014 | 1 month     |           |
| 11  | Develop Backup Procedure                                     | ROC Jeddah & BROCC Bahrain (inform MID-BMG)       |                               | 23.10.2014 | 4 months    |           |
| 12  | Develop Regional HB on OPMET Data Exchange                   | ROC Jeddah & BROCC Bahrain (inform MID-BMG)       |                               | 24.03.2015 | 3 months    |           |
| 13  | Develop first ideas for Training for                         | ROC Vienna  |                               | 27.10.2014 | 2 weeks     |           |

|           |   |  |                |            |            |  |
|-----------|---|--|----------------|------------|------------|--|
|           | operators   |  |                |            |            |  |
| <b>14</b> | Finalize Training for operators                       | ROC Jeddah & BROC Bahrain & ROC Vienna | Finish Task 13 | 10.11.2014 | April 2015 |  |
| <b>15</b> | Route GULF reports to ROC Jeddah                      | ROC Jeddah & BROC Bahrain              |                | 27.10.2014 | 1 month    |  |
| <b>16</b> | Transition Process for Iran, Jordan, Egypt            | ROC Jeddah & BROC Bahrain              |                | 16.02.2015 | 2 months   |  |
| <b>17</b> | Transition Process Iraq, Syria, Lebanon, Libya, Yemen | ROC Jeddah & BROC Bahrain              |                | 16.04.2015 | 2 months   |  |

## **Appendix E – draft ROC backup plan**

### **1- Introduction**

Jeddah Regional OPMET Center (ROC Jeddah) is responsible for collecting and distribute OPMET data from/to Middle East Region (MID Region). Also, ROC Jeddah works as Interregional OPMET Gateway (IROG). Bahrain works as Backup ROC ROC (B-ROC Bahrain) for Jeddah should malfunction happens.

### **2- Operation Plan**

Operation plan consists of procedures for dealing with malfunctions, service handovering to B-ROC Bahrain, service resuming by ROC Jeddah, mock failure procedure.

## Failure Responding Procedure

- 1- Malfunction detected by operator (Operator)
- 2- Open work order (Operator)
- 3- Within 10 minutes, either problem resolved or a clear report received from IT/maintenance department (IT/Maintenance Dept.)
- 4- If time needed, for fixing the problem, is more than half an hour, an email will be sent to B-ROC Bahrain explain the situation to be ready for handling the service, CC of the email should be send to ROC Vienna. If no receiving conformation email from B-ROC Bahrain with 10 minutes, a telephone call should be initiated with B-ROC Bahrain for handling the service. (Operator's Supervisor)
- 5- If no response from IT/Maintenance department with 10 minutes after opening the work order, or no clear report about the problem the issue will be escalated to GM of both IT maintenance departments.
- 6- After half an hour, if the problem persists: a) issue will be escalated to higher PME personnel. B) an email should be sent to B-ROC Bahrain explain the situation to be ready for handling the service, CC of the email should be send to ROC Vienna. if no conformation email from B-ROC Bahrain with 10 minutes, a telephone call should be initiated with B-ROC Bahrain for handling the service. (Operator's Supervisor).

## Procedure of Resuming Service by ROC Jeddah

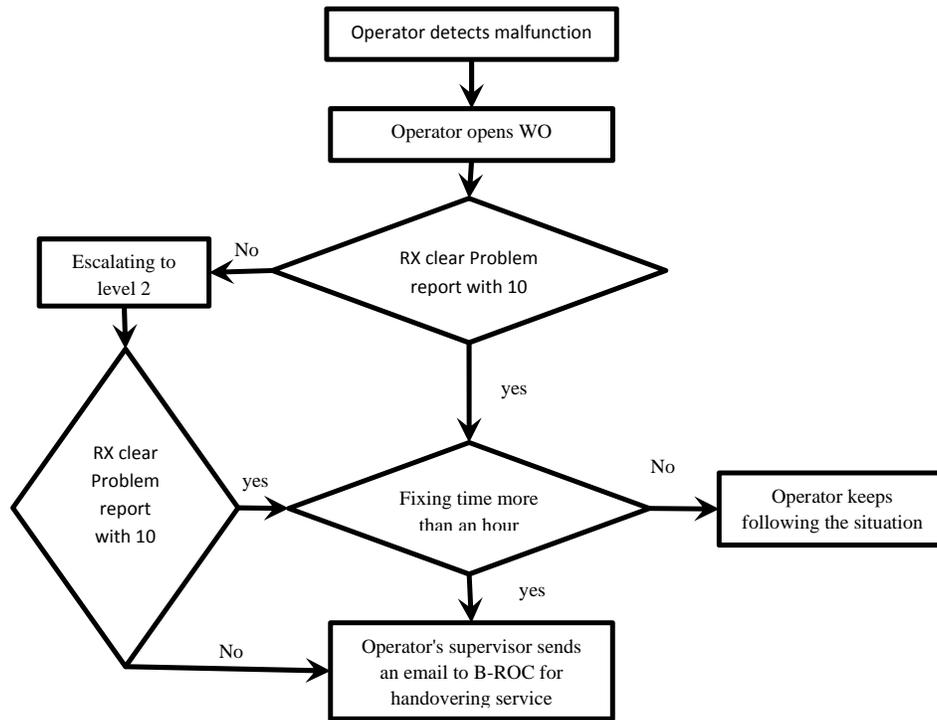
- 1- When ROC Jeddah operator receives conformation from IT/Maintenance department about problem resolving, an email will be sent to B-ROC Bahrain (CC to ROC Vienna) inform them about ROC Jeddah readiness to resume service normally. Handling service back to ROC Jeddah should be at any time between xx:21 and xx:45. An overlap of data exchange from both centers of minimum 5 minutes is recommended to insure service continuity.
- 2- B-ROC Bahrain should inform ROC Jeddah with a handing over time.
- 3- ROC Jeddah and B-ROC Bahrain should exchange information to improve handing over service between the two centers.

## **Mock Failure Test Procedure**

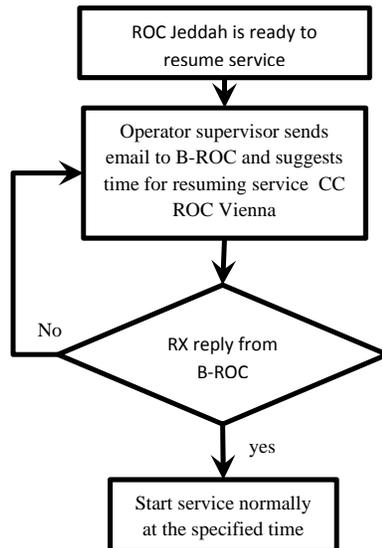
- ✓ The objective of the mock test is to insure readiness of both centers (ROC Jeddah and B-ROC Bahrain) and ability for backing up function. Also, the mock test can be considered as training for both parties.
- ✓ The decision of the mock test should be taken by senior (level III of admin.) in both centers. Date and time of the mock test should be anonymous, and known only by the seniors in both centers (operational staff should know at the beginning of the test procedure.
- ✓ Motivation for the mock test: a) installation of new systems or system upgrade, b) moving system to new building, c) recruiting of new staff.

### Mock Failure Test procedure

- 1- Initiative from a senior to conduct mock test.
- 2- Agreement on a certain date and time.
- 3- At the agreed time both senior inform operational staff to invoke handing over procedure.
- 4- ROC Jeddah resume normal operation after test end.
- 5- Mutual exchange of the test experience.



Malfunction detection procedure



Resuming service by ROC Jeddah

\*ROCs contacts information

|         | ROC Jeddah  | B-ROC Bahrain |
|---------|---|---------------|
| Level 0 | ROC Jeddah Operator<br>Telephone: +966126536408<br>Fax: +96612  |               |
| Level 1 | Mr. Khalid A. Tayar<br>MCC Director<br>Email: tayar990@yahoo.com<br>Tel: +966126536408 (Office)<br>Mobile: +966503626305 (Mob.) |               |
| Level 2 | Dr. Saad Almajnooni<br>ROC Director<br>Email: saad_j2001@hotmail.com<br>Tel: +966126536445<br>Mobile: +966546467695             |               |
| Level 3 | Dr. Ayman Ghulam<br>Deputy assistant<br>Email: ghulamas@yahoo.com<br>Tel: +966126536445<br>Mobile: +966555337646                |               |

\*This table should be updated frequently

Draft email from ROC to B-ROC for handovering service (template): The operator should copy this template and paste it in the email pane.

|  |   |
|--|---|
| <p>Dear B-ROC Bahrain (email: )<br/>CC: ROC Vienna (email:<br/><a href="mailto:michael.pichler@austrocontrol.at">michael.pichler@austrocontrol.at</a> )</p> <p>This is to let you know that ROC Jeddah is experiencing a malfunction. If the malfunction persists, the service of ROC Jeddah will be handed over to B-ROC Bahrain. Please, be prepared for backing up the service when you receive further confirmation .<br/>Best Regards,,</p> <p>ROC Jeddah</p> | <p>السادة/ مركز البحرين الإقليمي الرديف لتبادل معلومات الارصاد الخاصة بالطيران السلام عليكم ورحمة الله وبركاته<br/>أود إحاطتكم بأن مركز جدة الإقليمي لتبادل معلومات الارصاد الخاصة بالطيران يعاني من مشكلة فنية في الوقت الحاضر. إذا استمرت المشكلة فسيتم إشعاركم لتولي مسؤولية بصفتكم مركز رديف.<br/>لإحاطة سيادتكم<br/>مركز جدة</p> |
|--|---|

Draft email from ROC to B-ROC to resume service (template): The operator should copy this template and paste it in the email pane and modify the suggested service resuming time.

|  |  |
|--|--|
| <p>Dear B-ROC Bahrain (email: )<br/>CC: ROC Vienna (email:<br/><a href="mailto:michael.pichler@austrocontrol.at">michael.pichler@austrocontrol.at</a> )</p> <p>This is to let you know that ROC Jeddah now is ready to resume ROC service. We suggest service resuming to be at <b>xx:20</b>.<br/>Please, let us know when you ready for handovering the service. Service overlap of 5 minutes is recommended as agreed before.<br/>Best Regards,,</p> <p>ROC Jeddah</p> | <p>السادة/ مركز البحرين الإقليمي الرديف لتبادل معلومات الارصاد الخاصة بالطيران السلام عليكم ورحمة الله وبركاته<br/>أود إحاطتكم بأن مركز جدة الإقليمي لتبادل معلومات الارصاد الخاصة بالطيران قد أصبح الآن قادراً على تقديم الخدمة كالمعتاد. نقترح أن يتم يتول المركز الخدمة الساعة <b>**:20</b>.<br/>نرجوا التكرم بإفادتنا بموافقتكم على ذلك الموعد. علماً بأنه حسب الاتفاق السابق فستقدم الخدمة من المركزين سوياً لمدة خمس دقائق.<br/>وتقبلوا تحياتنا<br/>مركز جدة</p> |
|--|--|

# Appendix F – MID OPMET Exchange Diagram

