



INTERNATIONAL CIVIL AVIATION ORGANIZATION

MIDDLE EAST OFFICE

**EIGHTH MEETING OF THE MID ATS MESSAGING MANAGEMENT CENTRE
STEERING GROUP**

(MIDAMC STG/8)

(Amman, Jordan, 1-2 May 2023)

SUMMARY OF DISCUSSIONS

1. PLACE AND DURATION

1.1 Eighth Meeting of the MID ATS Messaging Management Centre Steering Group (MIDAMC STG/8) was successfully held during in Amman, Jordan, 1-2 May 2023.

2. OPENING

2.1 The meeting was opened by Ms. Muna Alnadaf, Regional Officer, Communication, Navigation and Surveillance, who extended a warm welcome to all participants to the Eighth meeting of the MIDAMC STG and wished them a successful meeting and a pleasant stay in Jordan. Mrs. Alnadaf thanked Jordan CARC for hosting the MIDAMC STG/8 Meeting.

2.2 Mr. Yaseen Hassan AlSayed, Director Air Navigation Systems, Bahrain, MIDAMC Chairman, underlined that the MIDAMC Steering Group plays a critical role in ensuring safe, efficient, and seamless exchange of ATS messages and information at regional and global level.

2.3 Mr. Yaseen stated that the meeting would discuss important issues facing the region and explore ways to improve the planning and implantation of AMHS in the MID Region, enhance collaboration between our member states, and discuss the future plans for MID IP Network Project.

2.4 Mr. Yaseen expressed his gratitude and appreciation to Jordan Civil Aviation Regulatory Commission for hosting this meeting and thanked all participants and wished them a successful meeting and fruitful discussion.

3. ATTENDANCE

3.1 The Meeting was attended by a total of forty three (43) participants from eight (8) States (Bahrain, Egypt, Iraq, Jordan, Oman, Qatar, Saudi Arabia and UAE), 1 International Organization (IATA), 2 from other States remotely (Spain) and ICAO Headquarters, ICAOMID. The list of participants is at **Attachment A**.

4. Officers and Secretariat

4.1 Mrs. Muna Alnadaf, ICAO MID Regional Officer, Communication, Navigation and Surveillance (RO/CNS) was the Secretary of the meeting.

5. DISCUSSION

Adoption of the Provisional Agenda

5.1 The meeting reviewed and adopted the Provisional Agenda.

Outcome of the MIDAMC STG/7

5.2 The meeting reviewed the Draft CNS SG/11 Conclusions related to the MIDAMC STG.

5.3 The meeting recalled the Draft CNS Conclusion 11/1 related to the Accreditation Procedure for MID External COM Operators.

5.4 The meeting reviewed the Draft CNS Decision 11/2 related to the Update of the AMC Routing Tables, the meeting agreed to set a timeline for the action group task to be completed by 1st November 2023.

DRAFT DECISION 8/1: UPDATE OF THE AMC ROUTING TABLES

That,

- a) *AMC Routing Table Action Group be established to review and update AMC Routing Directory by **1 November 2023**;*
- b) *be composed of:*
 - *the MIDAMC Chairman*
 - *the MIDAMC Team Leader (Jordan)*
 - *Ali Darwish.(Bahrain)*
 - *Ali Jaber.(Saudi Arabia)*

5.5 The meeting was informed about the suspense of Routing Directory function for two months due to legal concerns. EUROCONTROL has replaced the old disclaimer with a new one which is now termed as the AMC Terms of Use. The new AMC Terms of Use can be found at the bottom of the AMC entry page. States were requested to review the new Terms and provide any object they may have before 31 May 2023. If no objections received at the end of this period, EUROCONTROL would consider the new Terms of Use accepted by all users.

5.6 Furthermore, with this new Terms of Use in place EUROCONTROL will establish clear and well defined commitments between the parties. Consequently, EUROCONTROL will be able to re-open global routing function for external COM centres which has been suspended since 28th March 2023.

5.7 The meeting recalled the Draft CNS Conclusion 11/3 related to Validation of ARINC Addressee, the meeting urged the concerned States (Egypt, Libya and Sudan) to validate the ARINC Addressee by 1 August 2023.

DRAFT CONCLUSION 8/2: VALIDATION ARINC ADDRESSEE

*That, States are urged to validate the ARINC Users addressee at Appendix 4C by **1 November 2022-1 August 2023***

AMHS Planning and Implementation Matters

- Status of AMHS implementation

5.8 The meeting reviewed and updated the ROC plan as at **Appendix B**.

5.9 The meeting noted the status of AMHS implementation in the MID Region and that all intra-regional CIDIN connections have been removed, however, inter-regional connection with Cyprus are still CIDIN connection.

5.10 The meeting recalled MIDANPIRG Conclusion 18/34 related to the MIDAMC Operation Efficiency; the meeting urged States (Libya, Lebanon, Oman, Syria, Kuwait, Sudan, and Yemen) to update their focal points details, Systems capabilities and Connections on AMC.

5.11 The meeting received update on AMHS implementation Status in Bahrain, Iraq and Jordan.

5.12 The meeting reviewed the Status of implementation of priority 1 COMI Elements in the MID Region, it was noted that Iraq have fully implemented B0/7 & B1/1.

5.13 The meeting noted that Iraq established AMHS connection with Jordan and Kuwait, and planned to migrate AMHS with Iran, Lebanon and Syria. The meeting reviewed the regional requirements for AFS implementation for Iraq as per the MID ANP Vol II and encouraged Iraq to establish the required connection as per the regional plan. In this regard, the meeting was informed that ICAO MID Office will organize AMHS/AMC Workshop for Iraq, Libya and Yemen in 2023.

5.14 The meeting noted that Bahrain is planning to migrate all circuits to AMHS by Q4 2023.ag

5.15 The meeting discussed the need to rationalize AFTN/AMHS Network in the MID Region, based on operational requirements. The meeting agreed that States needs to review the need for bilaterally agreed connections.

- AMHS/SWIM Gateway

5.16 The meeting received with appreciation a presentation and information paper (PPT/6 & IP/3) from the AMHS/SWIM Gateway Study Group (SWAMWAY Study Group). The meeting noted that SWAMWAY SG is a joint initiative undertaken by a group of organisations including several ANSPs and industries with a deep expertise in both, AMHS and SWIM. The Study Group aims at developing a core technical specification for the AMHS/SWIM Gateway that establishes a basic framework through a set of essential requirements.

5.17 The meeting was apprised of the technical specifications under development of the AMHS/SWIM Gateway.

5.18 The meeting noted that the AMHS/SWIM Gateway Technical specifications document encompasses of four (4) chapters, the meeting received detailed presentation on each chapter:

Chapter 1-> Introduction

Chapter 2-> System Level Provisions

Chapter 3-> Configuration and parameters

Chapter 4-> AMHS/SWIM Gateway Specification

5.19 The meeting was apprised of the use cases, functional model and informational model of the AMHS/SWIM Gateway.

5.20 The meeting noted that AFTN addressee will be used for naming and addressing use for the AMHS/SWIM Gateway.

5.21 The meeting was apprised of gateway configuration, parameters and components.

- AMC Web Application Functions and Tools

5.22 The meeting was apprised of the status of Inter-regional connections with EUR, AMHS connection between Nicosia and Amman COM Centres is planned in Q4 2023.

5.23 It was highlighted that new implementation of AMHS connections between the EUR & MID Regions will improve redundancy.

5.24 The meeting noted with concerns inconsistencies between the data held in the AMC and what it is actually implemented on AMHS switches, which cause addressing and routing problems within the global network. The meeting urged States to ensure updating their systems data at the end of each AIRAC cycle.

5.25 The meeting recalled the agreed procedure for AMC users registration, States were encouraged to register three AMC users with different personal roles (Manager, Technical and operational)

Update on MID IP Network Project

5.26 The meeting received a presentation from the MIDAMC team on the Regional IP Network implemented in different ICAO regions; REDDIG, New PENS and CRV in SAM, EUR and APAC Regions, respectively.

5.27 The meeting noted the benefits, governance and administration of the three projects

5.28 The meeting recalled that MIDANPIRG/18 agreed, through Conclusion 18/37, that the ICAO MID Office, with the support of concerned States, initiate discussions with EUROCONTROL, in order to explore the possibility of joining the NEWPENS project as an alternative solution for establishing a MID IP Network.

5.29 ICAO MID requested EUROCONTROL to extend the New PENS to MID States. New PENS Webinar conducted (10 November 2021). The meeting recalled that eight (8) States (Bahrain, Egypt, Jordan, Lebanon, Kuwait, Oman, Saudi Arabia and UAE) confirmed their interest to join the EUROCONTROL IP Network Project (New PENS).

5.30 The meeting was informed that EUROCONTROL Member States should cast their vote on the project extension by April 28th. The results of the voting will be announced by 4th May.

Future Work Programme

5.31 The meeting agreed that the MIDAMC STG/9 meeting will be held virtually in the first quarter 2024. The face-to-face meeting would be conducted on biennial basis.

Any other business

5.32 UAE requested ICAO MID Office to organize AMHS/AMC Workshop/Training for new AMC users, accordingly the meeting agreed that the training/Workshop should be organized during 2024.

DRAFT MIDAMC DECISION 8/3: AMHS/AMC WORKSHOP

That, AMHS/AMC Workshop be organised for new AMC users in 2024

6. CLOSING

6.1 In closing, Mr. Yaseen Hassan thanked the participants for their participation and excellent contribution to the meeting.

6.2 The participants thanked ICAO for organizing such a fruitful Meeting, as well as Jordan CARC for the hosting.

MIDAMC STG/8
(Amman, Jordan, 1-2 May 2023)

| State/ Org | Contact | Title | Email |
|---------------------------|-----------------------------------|---|-------------------------------|
| MID STATES | | | |
| Bahrain | Mr. Yaseen Hassan AlSayed | Director Air Navigation Systems Ministry of Transportation & Telecommunications | y.alsayed@mtt.gov.bh |
| Egypt | Mr. Ahmed Mostafa Mohamed Arman | Senior ANS Safety Oversight Inspector | Engahmed.arman@yahoo.com |
| Iraq | Mr. Mohammed Adil Hameed Hameed | | Mahn70@yahoo.com |
| | Mr. Ibrahim Sabah Naiem | MICA Focal Point | micagcans@gcans.gov.iq |
| | Mr. Hayder Akram Ibrahim | Radio Communication Manager | mobilecom@gcans.gov.iq |
| | Mr. Mustafa Z. Abdulameer | Network & Security Specialist | mostaphazedanameer@gmail.com |
| | Mr. Arkan Muslim Baqer | AFTN/AMHS Engineer | muslemarkan@gmail.com |
| Jordan | Mrs. Neveen Askar | Head of Communication & Navigation Aids Division /Administration | n.askar@carc.gov.jo |
| | Mr. Mohamed Allahem | Director ATM | Moamoud.allahem@carc.gov.jo |
| | Mr. Ibrahim Faraj | Director of Technical Support | Ibrahim.Faraj@carc.gov.jo |
| | Mr. Yaser Mustafa Issa Ziad | Chief of AFS Engineering Division | Yasser.Zayyad@carc.gov.jo |
| | Mrs. Taghreed Al-assad | Chief of Comm.\ Nav division KHIA | Taghreed.Al-assad@carc.gov.jo |
| | Mrs. Wesam Jebreen | Chief of Radar Maint dvision | Wesam.Jebreen@carc.gov.jo |
| | Mr. Ibrahim Ali Eid Alsaou | AFTN/AMHS System Technician | brhmsaou4@gmail.com |
| | Mrs. Lina Ahmad Yousef Abuawad | AFTN/AMHS System Engineer | lina.abuawwad@carc.gov.jo |
| | Mr. Amer Mohammad Theeb Yousef | AFTN/AMHS System Engineer | amerdeeb_81@hotmail.com |
| | Mr. Areej Said Khaled Alajou | CNS inspector | Areej.Alajow@carc.gov.jo |
| | Mr. <u>Raed Ghazawi</u> | Chief of AIS HQ | Raed.Ghazawi@carc.gov.jo |
| | Mr. Ahmad Odeh | DANS Queen Alia Airport | ahmad.odeh@carc.gov.jo |
| | Mr. Bassam Abdulrahman Refai abed | Acting director ANS/AMMAN Civil Airport | Bassam.Abid@carc.gov.jo |
| | Mr. Mahmoud Hatem Ibrahim | Chief of Comm.\ Nav division QAIA | m.hatem @carc.gov.jo |
| | Mr. Ali Salman Ali Alqudah | Air Traffic controller | Ali.alqudah@carc.gov.jo |
| | Mr. Shadi Mohammad Ahmad | Senior Air Traffic Controller | shadi_ahmad@mail.com |
| | Mrs. Ghada Al-faoury | Supervisor of radar main division | Ghada.Al-faoury@carc.gov.jo |
| | Mr. Tarik Mohammed Alrabee | AIS officer | Tareq.al-rabeea@carc.gov.jo |
| | Mrs. Ikhlas Ismail Alkhatib | AIS officer | Ikhlas.alkhatib@carc.gov.jo |
| | Mr. Yasser AL Mansour | AFTN Operation | Yasser.AL_mansour@carc.gov.jo |
| Mrs. Roaa Alkasasbeh | AFTN Operation | Roaa.ALkasasbeh@carc.gov.jo | |
| Mr. Tareq Oklah Al-momani | AIS Officer | t.al-momani@carc.gov.jo | |

| State/ Org | Contact | Title | Email |
|---------------------------------|---|---|--|
| | Mr. Mahmoud Mohammad K. Sabrah | Director ANS –K.H.I.A | m.sabra@carc.gov.jo |
| | Mr. Eman Alkalaldehy | AFTN Operation | Eman.AL_kalaldehy@carc.gov.jo |
| Oman | Mr. Said HusseinAl Balushi | Chief of Air Com | said@caa.gov.om |
| | Mr. Mohammed Ahmed Omar Ba Abood | ANS Engineer-Act ATM System Supervisor | Mohammed.baabood@caa.gov.om |
| Qatar | Mr Khalid Al-Muftah | Senior Electronics Engineer | khalid@caa.gov.qa |
| | Nayif Al-Jaber | Electronics Engineer | Nayif.aljaber@caa.gov.qa |
| | Mr. Hamad Al Dosari | Electronics Engineer | Hamad.AIDosari@caa.gov.qa |
| Saudi Arabia | Mr. Faisal Al Zarhrani | Automation Engineering Supervisor | fzarhrani@sans.com.sa |
| UAE | Mr. Yousif Al Awadhi | Director CNS | yawadi@szc.gcaa.ae |
| | Mr. Hamad Mohamed Al Marzooqi | Communication Supervisor | hmalmarzooqi@szc.gcaa.ae |
| | Mr. Ahmed Al Obeidli | Senior Manager – Air Navigation | aobaidli@gcaa.gov.ae |
| | Ms. Eman Obaid Khamis Balhaj Almarashda | ANS Specialist Engineer | emarashda@szc.gcaa.ae |
| OTHER STATES | | | |
| SPAIN (Remotely) | Mr. Garcia Cano, Jesus Mario | | jmgcano@enaire.es |
| | Mr. Pedro Juan Jimenez Garcia | | pedrojuan.jimenezgarcia@telefonica.com |
| ORGANIZATIONS/INDUSTRIES | | | |
| IATA | Mr. Jehad Faqir | Head of Regional Safety-Africa and Middle East | faqirj@iata.org |
| | Mrs. Zainab Khudhair | Manager Operations, ATM and Infrastructure | Khudhair7@iata.org |
| ICAO MID STAFF | | | |
| ICAO Headquarters | Miss Fabiola Chouha | Technical Associate, ANB/ANS/CNSS | FChouha@icao.int |
| ICAO-MID | Mrs. Muna Alnadaf – ICAO MID | Regional Officer, Communication, Navigation and Surveillance (RO/CNS) | malnadaf@icao.int |
| | Mrs. Hoda Gabriel | Technical Assistant | hgabriel@icao.int |

-END-

APPENDIX B

MID ROC Plan

| <i>AMHS Plan for ROC in Jeddah and Bahrain</i> | | | | | |
|--|---|------------------|-------------------------|-------------------|-----------------------|
| | Task | Timeframe | Assigned to | Champion | Status |
| <i>AMHS Intra-regional Trunk Connections</i> | | | | | |
| 1 | Establish Jeddah – Beirut IP Network. | Jul 2015 | Saudi Lebanon | IM MS | Completed |
| 2 | Establish Bahrain – Beirut IP Network. | Feb 2016 | Bahrain Lebanon | YH MS | Completed |
| 3 | Establish Cairo – Beirut IP Network. | July 2016 | Egypt Lebanon | AF//MR MS | Completed |
| 4 | Establish Bahrain – Jeddah IP Network. | Mar 2016 | Bahrain Saudi | IM YH | Completed |
| 5 | Perform the Interoperability test between Jeddah and Beirut COM Centers. | July 2015 | Saudi Lebanon | IB MS | Completed |
| 6 | Perform the Interoperability test between Bahrain and Beirut COM Centers. | July 2016 | Bahrain Lebanon | MS YH | Completed |
| 7 | Perform the Interoperability test between Cairo and Beirut COM Centers | July 2016 | Egypt Lebanon | AF/TZ/MR MS/EK | Completed |
| 8 | Perform the Interoperability test between Bahrain and Jeddah COM Centers. | 15 October 2020 | Bahrain Saudi | YM AA | Completed |
| 9 | Perform the Pre-operational test between Jeddah and Beirut COM Centers. | July 2015 | Saudi Lebanon | IM MS | Completed |
| 10 | Perform the Pre-operational test between Bahrain and Beirut COM Centers. | July 2016 | Bahrain Lebanon | YH MS | Completed |
| 11 | Perform the Pre-operational test between Cairo and Beirut COM Centers. | March 2017 | Egypt Lebanon | AF/ /MR MS/EK | Completed |
| 12 | Perform the Pre-operational test between Bahrain and Saudi COM Centers. | 25 October 2020 | Bahrain Saudi | YM IM | Completed |
| 13 | Place the AMHS link into operation between Jeddah and Beirut COM centers, and updating the Routing tables. | July 2015 | Saudi Lebanon MID AMC | IM MS/EK MN | Completed July, 2015 |
| 14 | Place the AMHS link into operation between Bahrain and Beirut COM centers, and updating the Routing tables. | July 2016 | Bahrain Lebanon MID AMC | YH MS/EK MN | Completed On 3/5/2016 |
| 15 | Place the AMHS link into operation between Cairo and Beirut COM centers, and updating the Routing tables. | April 2017 | Egypt Lebanon MID AMC | AF/TZ/MR MS/EK MN | completed |

| <i>AMHS Plan for ROC in Jeddah and Bahrain</i> | | | | | |
|--|--|---|--------------------------------------|----------------------------|---|
| | Task | Timeframe | Assigned to | Champion | Status |
| <i>AMHS Intra-regional Trunk Connections</i> | | | | | |
| 16 | Evaluate the Trunks connections bandwidth and increase it if required between (Bahrain, Beirut, Cairo and Jeddah). | Q4 2021 | Bahrain Beirut Cairo Jeddah | YH MS/EK AF/TZ IM | |
| <i>The AMHS Interconnection with EUR Region Depends on Nicosia and Athens</i> | | | | | |
| 17 | Establish Cairo – Tunis IP Network. | <i>March 2016</i> <i>July 2016</i> | | AF/TZ/MR IB/MA | completed |
| 18 | Establish Nicosia – Beirut IP Network. | Q3 2021 | | MS/EK | Lebanon is ready to connect |
| 19 | Establish Nicosia – Jeddah IP Network. | Q3 2021 <u>Q1 2023</u> | | IM | Saudi Arabia is ready to connect <u>completed</u> |
| 20 | Establish Bahrain – Nicosia IP Network. | Q3 2021 <u>Q3 2023</u> | | AD | Bahrain is ready to connect <u>In progress</u> |
| 21 | Establish Cairo – Athens IP Network. | Dec 2016 | | AF/TZ/MR | Completed |
| 22 | Perform the Interoperability test between Cairo and Tunis COM Centers. | <i>April 2016</i> <i>August 2016</i> | | AF/ /MR IB/MA | Completed |
| 23 | Perform the pre operational test between Cairo and Tunis COM Centers. | <i>Q3 2016</i> | | AF/ /MR IB/MA | Completed |
| 24 | Place the AMHS link into operation between Cairo and Tunis COM Centers, and updating the Routing tables. | <i>Aug 2016</i> | | AF/ /MR IB/MA | Completed |
| 25 | Perform the Interoperability test between Athens and Cairo COM Centers. | Mar 2017 | | AF/TZ/MR IB/MA | Completed |
| 26 | Perform the Interoperability test between Bahrain and Nicosia COM Centers. | Q3 2023 4 | | AD | Bahrain is ready to connect |
| 27 | Perform the Interoperability test between Nicosia and Jeddah COM Centers. | Q3 2021 <u>Q1 2023</u> | | IM | Saudi Arabia is ready to connect <u>Completed</u> |
| 28 | Perform the Interoperability test between Nicosia and Beirut COM Centers. | Q3 2021 | | MS/EK | Lebanon is ready to connect |
| 29 | Perform the Pre-operational test between Athens and Cairo COM Centers. | Mar 2017 | | AF/TZ/MR | Completed |
| 30 | Perform the Pre-operational test between Bahrain and Nicosia COM Centers. | Q3 2023 4 | | YH | Bahrain is ready to connect |
| 31 | Perform the Pre-operational test between Nicosia and Beirut COM Centers. | Q3 2021 | | MS/EK | Lebanon is ready to connect |

| <i>AMHS Plan for ROC in Jeddah and Bahrain</i> | | | | | |
|--|--|----------------------------------|--------------------------------------|-------------------|--|
| | Task | Timeframe | Assigned to | Champion | Status |
| <i>AMHS Intra-regional Trunk Connections</i> | | | | | |
| 32 | Perform the Pre-operational test between Nicosia and Jeddah COM Centers. | Q13 2021 3 | | IM | Completed Saudi Arabia is ready to connect |
| 33 | Place the AMHS link into operation between Athens and Cairo COM Centers, and updating the Routing tables. | Q1 2017 | | MIDAMC AF/ /MR | Completed |
| 34 | Place the AMHS link into operation between Bahrain and Nicosia COM Centers, and updating the Routing tables. | Q3 2021 | | MID AMC YH | <u>In progress</u> |
| 35 | Place the AMHS link into operation between Nicosia and Jeddah COM Centers, and updating the Routing tables. | Q13 2021 3 | | MID AMC IM | <u>Completed</u> |
| 36 | Place the AMHS link into operation between Nicosia and Beirut COM Centers, and updating the Routing tables. | Q3 2021 | | MS/EK | |
| 37 | Evaluate the inter-region connections bandwidth and increase it if required. | Q3 2021 | | MID AMC | |
| 38 | Transition of all regional AFTN/CIDIN Connections to AMHS. | Q3 2021 | Bahrain UAE | | 3 intra-regional CIDIN connection remains completed |
