



International Civil Aviation Organization

MID ATS Message Management Center Steering Group

Third Meeting (MIDAMC STG/3)
(Cairo, Egypt 26 - 28 January 2016)

Agenda Item 4: Enhancement of the MID AFS Network Services

PROGRESS ON THE ESTABLISHMENT OF THE MID IP NETWORK

(Presented by Secretariat)

SUMMARY
This paper presents the progress in the establishment of the MID IP Network. Action by the meeting is at paragraph 3.
REFERENCES
- MIDANPIRG/15 Report - MAEP SC/2 Report - MID IP Network workshop Recommendations

1. INTRODUCTION

1.1 The Second Meeting of the MID Region ATM Enhancement Programme Steering Committee (MAEP SC/2) was held at the ICAO MID Regional Office in Cairo, 20-22 October 2015.

1.2 The MID IP Network workshop with support from ICAO APAC Region was held at the ICAO MID Regional Office in Cairo, 24-25 January 2016.

2. DISCUSSION

2.1 The meeting may wish to recall that the establishment of MAEP is progressing well, through the development of necessary documentation in coordination with Headquarters such as, the Memorandum of Agreement, Management Service Agreement and the MAEP Project Document, which should be signed with TCB.

2.2 The MAEP Steering Committee (MAEP SC) conducted two meetings, MAEP SC/1, (20-22 January 2015) and MAEP SC/2 (20-22 October 2015). The MAEP SC/2 meeting prioritized the implementation of the agreed projects as follows:

Project	Implementation Time frame
MID Flight Procedure Programme (MID FPP)	July 2016- June 2019
ATS Route Network Optimization Project (ARNOP)	Phase I ends June 2016
MID IP Network	January 2016
MID Integrated Flight Plan Processing System (IFPS)	2016
MID Region Aeronautical Database (MIDAD)	2017 and beyond
Regional/Sub-Regional ATFM system	2017 and beyond

2.3 The MAEP SC/2 meeting reviewed the MID IP Network Project Proposal Document and was apprised of the progress made in the implementation of the Common Regional Virtual Private Network Programme (CRV) in the APAC Region. In this respect, it was highlighted that CRV Task Force was created end 2013 under the APANPIRG framework. The CRV become a programme that will expectedly become a safe and secured IP-based transportation service offered to CRV users from 2017 onwards through a common contractual framework. This common contractual framework will be responsible for the ongoing sealed Tender process to successfully select a best and final offer. The ongoing sealed tender process makes it possible for all MID States, and more users, to join this initiative.

2.4 The meeting may wish to note that the challenges related to the implementation of the IP Network Project, the cost-benefit analysis and preliminary safety analysis have been carried out in the APAC Region and the procurement process is through an ICAO TCB project. An Expert was appointed to support the Call for Tender Process for the selection of the Telecommunication Service Provider (CRV supplier). It was highlighted that the CRV users will have to sign individual service contract (based on a template) with the CRV supplier. The CRV procurement includes all ICAO MID States as potential users.

2.5 The MAEP SC/2 meeting discussed three scenarios for the implementation of the MID IP Network:

1. MID Region drives its own IP-based network project and uses CRV procurement framework for all regional and interregional connections.
2. MID Region drives its own IP-based network project and uses CRV procurement framework only for interregional connections along the major traffic flows.
3. MID Region drives its own IP-based network project and does not use at all the CRV procurement framework.

2.6 The MAEP SC/2 meeting agreed that scenario 1 is the best scenario for the implementation of the MID IP Network and that close coordination with APAC through the Bangkok Regional Office should be carried out in order to use the CRV procurement framework for the implementation of the MID IP Network. In this respect, the meeting agreed that MID IP Network Workshop be organized as soon as possible (early 2016) with the support from the APAC Region; to address all issues related to the implementation of the MID IP Network using the CRV procurement framework.

2.7 In connection with the above, it is to be highlighted that a structure for managing the network once commissioned will need to be established (governing body). In the APAC a CRV Operations Group (CRV-OG) will be established and States/Administrations will have to join the CRV-OG before signing an individual service contract with the selected supplier. Furthermore, before starting the operations, CRV users will have to nominate their operations Point of Contact.

2.8 Based on the above, the MAEP SC/2 meeting agreed that ICAO MID Regional Office issue a State Letter to seek States commitment to the MID IP Network and request them to provide necessary information for onward transmission to APAC (point of contact (name/email/telephone), exact address including the building and technical room, latitude/longitude, etc). Accordingly, the meeting agreed to the following Draft Conclusion:

DRAFT CONCLUSION 2/3: MID IP NETWORK PROJECT

That,

- a) the MID IP Network Project use the procurement framework of the APAC Common Regional Virtual Private Network Programme (CRV);*
- b) States be urged to confirm their commitment to go ahead with the implementation of the MID IP Network using the APAC CRV procurement framework, and provide necessary information; and*
- c) a joint APAC/MID IP Network Workshop be organized as soon as possible (early 2016) to address all issues related to the implementation of the MID IP Network.*

2.9 Based on the above the ICAO MID Regional Office issued State Letter Ref. AN 6/31.4-15/312, dated 05 November 2015 that included all the APAC documents related to CRV. Replies received from (Bahrain, Egypt Jordan, Sudan and UAE) as at **Appendix A**. The ICAO MID Regional office organized the MID IP Network Workshop on 24-25 January 2016 and the Workshop developed recommendations as at **Appendix B**.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a. review and update information at **Appendix A**; and
- b. propose appropriate actions for the MID IP Network recommendations.

APPENDIX A

MID IP Network Project
Replies to State Letter: AN 6/31.4-15/312

State	Name	Tel./Fax	Mobile	Email	IP Network equipment room Coordinates	Commitment
Bahrain	Mohamed Ali Saleh Chief Aeronautical Telecomm	Tel:+973 17321187 Fax:+973 17329966		masaleh@caa.gov.bh	Air Navigation Directorate Building: 353, Road: 2408, Block:224 Muharraq Bahrain Technical Room coordination point: 2616N 05038E	
	Yaseen Hassan AlSayed Head Aeronautical Telecomm Network	Tel:+973 17321183 Fax:+973 17329966		y.alsayed@caa.gov.bh		
Egypt	Mr. Mohamed Ramzy Mohamed Abdallah Director of AFTN/AMHS Technical Department	Tel:+202 22657981	+201007736780	Mrma_eg@yahoo.com	Building Name: Cairo Air Navigation Center (CANC) Address: NANSCEG Company – Cairo 30° 07' 01.0" N + 31°23'42.4" E	Y
	Eng. Haitham Mohamed Ahmed Eldosoki Director of AIM Technical Department	Tel:+202 22650781	+201007810781	Haitham.mohamed@nansceg.net		
Jordan	Ms. Mona Ribhi AlNaddaf	Tel:+9626 4881473	+96279 9876710	m.al-nadaf@carc.gov.jo		NOT SURE
Sudan	Eng. Yasir Eltayeb Sidahmed	Tel:+249 183 782701 Fax:+249 183 770001		yasirts@gmail.com		

State	Name	Tel./Fax	Mobile	Email	IP Network equipment room Coordinates	Commitment
UAE	Shahzad Chaudhary Senior CNS Engineer Communication, Navigation and Surveillance ANS - Sheikh Zayed Air Navigation Centre - GCAA P.O.Box: 666 Abu Dhabi UAE	Tel:+971 2 599 6865 Fax: +971 2 599 6872	+971 50 819 5635	shahzad@szc.gcaa.ae	The co-ordinates are as follows: 24° 26' 41.82" N 54° 36' 35.46" E The working number at site is 00971 2 5996900	
	Greg Kurten A/Director CNS Communication, Navigation and Surveillance ANS - Sheikh Zayed Air Navigation Centre - GCAA P.O.Box: 666 Abu Dhabi UAE	Tel: +971 2 599 6860 Fax: +971 2 599 6872	+97150 614 8183	gegkurten@szc.gcaa.ae	The co-ordinates are as follows: 24° 26' 41.82" N 54° 36' 35.46" E The working number at site is 00971 2 5996900.	



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MIDAMC STG/3-WP/10
APPENDIX B

MID IP NETWORK Workshop Summary of Recommendations

(Cairo, Egypt, 24-25 January 2016)





MID IP NETWORK Workshop - Recommendations

- **The workshop recognized that CRV (Regional IP Network) is a major Enabler for ASBU B1 implementation.**
- **CRV (Regional IP network) is essential for the harmonization and interregional coordination for the implementation of many ASBU Modules**
- **CRV (Regional IP Network) needs to be implemented as priority for the MID region which was identified as priority one by the MAEP**
- **The Regional IP Network is to be named as Common aeRonautical VPN (CRV)**



MID IP NETWORK Workshop - Recommendations

- **The benefits from implementation of the CRV could only be realized when majority of the States join the network. Accordingly, to maximize the benefits all MID States are urged to join the CRV**
- **MID States are urged to conduct the Local CBA taking into consideration the safety assessment and Provide all information to ICAO MID Regional Office by the End of Feb 2016.**
- **ICAO MID Regional office to support the CBA and Safety assessment through teleconference with the focal points after receiving the Local CBA from the States by March 2016**



MID IP Network Workshop - Recommendations

- **The CRV will have to be interconnected with other Regional Networks (PENS, MEVA etc.)**
- **APAC and MID Region to establish their own CRV Operational Groups to Manage the CRV in their Regions.**
- **One interregional OG meeting co-chaired by both Regions is conducted once a year and/or when needed.**
- **The CRV framework to consider in the design for two regional networks with one service provider for both APAC and MID region**



MID IP NETWORK Workshop - Recommendations

The MID AMC meeting to consider the following draft conclusion:

That the following States (????) are committed to join the CRV framework after having considered the local CBA and Safety Assessment.





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and Caribbean
(NACC) Office
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South American
(SAM) Office
Lima

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Western and
Central African
(WACAF) Office
Dakar

European and
North Atlantic
(EUR/NAT) Office
Paris

Middle East
(MID) Office
Cairo

Eastern and
Southern African
(ESAF) Office
Nairobi

Asia and Pacific
(APAC) Sub-office
Beijing

Asia and Pacific
(APAC) Office
Bangkok



THANK YOU