



## INTERNATIONAL CIVIL AVIATION ORGANIZATION

### MIDDLE EAST OFFICE

#### ICAO MID IP NETWORK WORKSHOP

*(Cairo, Egypt, 24 - 25 January 2016)*

#### SUMMARY OF DISCUSSION

#### **I. GENERAL**

##### **1.1 Place and Duration**

1.1.1 The ICAO MID IP Network Workshop was successfully held at the ICAO Middle East (MID) Regional Office (Cairo, Egypt, 24-25 January 2016). The Workshop was organized with the support from the ICAO APAC Regional Office.

##### **1.2 Opening**

1.2.1 The Workshop was opened by Mr. Raza Gulam and Mr. Frederic Lecat, Regional Officers, Communications, Navigation and Surveillance (RO/CNS), from the ICAO Middle East and Asia Pacific Regional Offices, respectively; and Mr. Chonlawit Banphawatthanarak, Chairman of the APAC CRV Task Force.

##### **1.3 Attendance**

1.3.1 The Workshop was attended by a total of twenty two (22) participants from seven (7) States (Bahrain, Egypt, Iran, Jordan, Saudi Arabia, Thailand and United Arab Emirates) and one (1) organization (AACO). The list of participants is at **Attachment A**.

##### **1.4 Agenda**

1.4.1 The agenda was developed around the main following topics:

- a) Background on IP Networks Including MID IP Network
- b) CRV Development
- c) CRV Terms of Reference and Tenders Documentation
- d) Review of the Individual Service Contract between CRV and User Supplier
- e) APAC and MID benefits on Joining CRV

- f) Next Steps and way forward
- g) Any other business

1.4.2 The Work Programme and the presentations delivered during the Workshop are available at the ICAO MID Regional Office website:

<http://www.icao.int/MID/Pages/2016/MID%20IP%20Network%20Workshop.aspx>

One presentation about the cost benefit analysis is not available in order to not disclose the prices proposed by vendors during the request for information performed by the CRV Task Force in 2014.

## 1.5 Objective

1.5.1 The Workshop was organized as a follow-up to Draft Conclusion 2/3 of the second meeting of the MID ATM Enhancement Program Steering Committee (MAEP SC/2), that agreed that the MID IP network project use the procurement framework of the APAC Common Regional Virtual Private Network Programme (CRV).

1.5.2 The main objective of the Workshop was to provide a complete overview of the specifications developed by APAC for the CRV and to bring together all MID States and APAC Experts to review the MID IP Network regional requirements, cost effectiveness considerations, and global/regional integration of the IP networks.

1.5.3 The Workshop offered a unique opportunity for MID States to work together with the APAC Region towards a harmonized IP Network implementation across States and Regions, highlighting the need for interregional coordination and systems' interoperability, and in line with the 12<sup>th</sup> Air Navigation Conference *Recommendation 1/6 – Data communications issues*.

## II. SUMMARY AND OUTCOME OF DISCUSSIONS

2.1 The Workshop had discussion on all aspects for the development and implementation of the MID IP Network for the MID Region jointly with APAC and discussed in detail the different scenarios for the development and implementation of the IP Network.

2.2 The Workshop agreed with the MAEP SC/2 Conclusion that the MID Region drives its own IP-based network project and uses CRV procurement framework for all regional and interregional connections. The Workshop was of the view to speed up the process of joining the CRV in order to catch up with the APAC Region for CRV milestone dates.

2.3 The Workshop recognized that CRV (Regional IP Network) is a major enabler for ASBU Block 1 implementation, which is planned for implementation starting 2019.

2.4 The Regional IP Network (CRV) is essential for the harmonization and interregional coordination for the implementation of many ASBU Modules. Accordingly, the CRV (Regional IP Network) needs to be implemented as a priority for the MID Region, which was also identified as a priority one by the MAEP Steering Committee.

2.5 Simple Cost Benefits Analysis (CBA), were successfully conducted during the Workshop for Jordan and UAE and it highlighted what information the States need to provide to ICAO MID Regional Office for the calculation of the CBA. A simple safety assessment scenario based on Egypt use case was also presented; this would assist the States for the conduct of their local safety assessment.

2.6 Based on the above, the Workshop developed the following recommendations:

- The Regional IP Network is to be named “Common aeRonautical VPN (CRV)” and be implemented under developed CRV framework as a priority.
- 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.
- The CRV will have to be interconnected with other Regional Networks (PENS, MEVA etc.).
- The 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 two regional networks with one service provider for both APAC and MID Regions, to the extent possible.

### **III. CLOSING**

3.1 In closing, Mr. Raza Gulam, RO/CNS, ICAO MID Regional Office, thanked the participants for their presence and expressed ICAO MID Region’s gratitude to ICAO APAC Region for their valuable information and the excellent support to the Workshop.

3.2 The participants recognized the usefulness of the event and expressed their thanks to both ICAO APAC and MID Regions for organizing such a fruitful Workshop and underlined the importance of necessary follow-up actions on the recommendations by States.

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**LIST OF PARTICIPANTS**

NAME	TITLE & ADDRESS
<p><b>STATES</b></p> <p><b>BAHRAIN</b></p> <p>Mr. Mohamed Ali Saleh</p>	<p>Head, Aeronautical Communication Civil Aviation Affairs KINGDOM OF BAHRAIN</p>
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