



INTERNATIONAL CIVIL AVIATION ORGANIZATION

MIDDLE EAST OFFICE

WORKSHOP ON AERONAUTICAL FREQUENCY MANAGEMENT AND FREQUENCY FINDER

(CAIRO, EGYPT, 09 - 13 OCTOBER 2016)

SUMMARY OF DISCUSSION

I. GENERAL

1.1 Place and Duration

1.1.1 The Workshop on Radio Frequency Management and Frequency Finder was successfully held at the ICAO MID Regional Office, Cairo, Egypt, 09 - 13 October 2016.

1.2 Attendance

1.2.1 The Workshop was attended by a total of twenty six (26) participants from six (6) States (Bahrain, Egypt, Iran, Saudi Arabia, Uganda and United Arab Emirates) and one (1) Regional Organization (GCC). The list of participants is at **Attachment A**.

1.3 Agenda

1.3.1 The agenda was developed around the main following topics:

- a) Introduction for the Workshop and participants
- b) Aeronautical Frequency Planning
- c) MID frequency allotment plan
- d) Installing the runtime version of Frequency Finder;
- e) Using Frequency Finder (Check sync, Download sync, Local backup, etc.)
- f) Presentation of frequency assignment planning criteria contained in Doc 9718 Vol II
- g) Presentation of Frequency Finder
- h) Practical exercise on using the Frequency Finder
- i) Updating COM list 3 for the States
- j) Wrap-up and closing

1.3.2 The Agenda/Work Programme and the presentations delivered during the Workshop are available at the ICAO MID Regional Website:

<http://www2010.icao.int/MID/Pages/2016/Frequency%20Finder%20Workshop.aspx>

1.4 Objective

1.4.1 The objective of the Workshop was to cope with the global and regional recent evolutions of ICAO Spectrum Policy and frequency management provisions. The Workshop covered frequency planning, efficient frequency assignment management and requirement for the amendment of the MID frequency allotment plan.

1.4.2 The main objective of the Workshop was to support the implementation of the Frequency Finder (FF), a new ICAO aeronautical frequency management tool to update the global frequency database. The Workshop covered in detail the different functions that are available in FF. It was made clear that FF will support the States in the testing of compatible frequencies and will be the tool used by the Regional Office to update the global frequency database.

1.4.3 Among the objectives were to update the COM list 3 for the MID Region States and to test the incompatible frequencies allocation, and resolving incompatibilities.

II. SUMMARY AND OUTCOME OF DISCUSSIONS

2.1 Mr. Raza Gulam, Regional Officer CNS, ICAO Middle East Office, Cairo acted as the moderator of the Workshop. The Workshop was supported by Mr. Loftur Jonasson, Technical Officer ICAO HQ and Mr. Robert Witzel Consultant ICAO HQ.

2.2 The Workshop was apprised of the outcome of the ITU World Radiocommunication Conference in 2015 (WRC-15) and the development in the Frequency Spectrum Management (FSMP) for the ICAO position to the next WRC, which will be held in 2019 (WRC-19).

2.3 The Workshop was provided with an overview of the ICAO Handbook (Vol I and Vol II), on Radio Frequency Spectrum Requirements for Civil Aviation, addressing areas related to Frequency Management and Spectrum strategy, including long term (current and future) spectrum usage of radio systems, ICAO policies on use of aeronautical spectrum to support the ICAO spectrum strategic objectives and ICAO position for future ITU WRC.

2.4 The Workshop provided an opportunity to train participants on the installation and using of the Frequency Finder covering in details the following topics:

- Installing the runtime version of Frequency Finder;
- FF Start and Home Pages
- Download synchronization
- Back-up and recovery
- Compatibility testing of frequency assignments
- Analyze detailed calculation results
- Present calculation results on a map with Google Earth
- Review of interference cases
- Add, Modify or delete frequency assignments from COM list 3
- Extended Range facilities
- Area services specified through polygons
- Tailoring of DOC
- Search for new or modified frequency
- Export COM list 3 or parts there-of
- Mapping
- Special functions

2.5 The Workshop reviewed and updated the MID Region COM list 3 for some States and requested all MID States to provide updates using the Frequency Finder export facility as soon as possible, preferably within two weeks.

2.6 The detailed consideration of integrity errors and how to remove these was explained. Furthermore, consideration of MID frequency assignments that are currently listed in the other regions like (EUR/Safire database) was explained along with the necessary actions needed to resolve the duplicate entries which were basically due to the manual management of the COM list.

2.7 The Workshop developed the following recommendations:

- States are invited to:
 - verify and update existing registered frequencies in the COM list;
 - add any missing frequencies with the full details and links to FIR, where applicable;
 - add Extended Range identification, where applicable;
 - delete unused frequencies;
 - identify to the Regional Office for deletion purposes the duplicate frequencies contained in the other Region list (e.g. EUR/AFI);
 - send the changes in excel format generated by the FF export function; and
 - send new frequency proposals using the excel format generated by the FF.
- MID Regional Office is invited to:
 - send State Letter with standard excel sheet format requesting States to provide updates;
 - update the MID COM list 3 in the Global Frequency Database;
 - continue the coordination and update of the MID COM list 3 in the Global Frequency Database; and
 - support ICAO HQ for the development of the other modules (NAV/AID, HF, etc.).
- The MID Region to consider revising frequency allotment plan; and use of polygons.

III. CLOSING

3.1 In closing, Mr. Mohamed Khalifa Rahma, Regional Director, ICAO MID Office, thanked the ICAO HQ team and the participants for their presence and encouraged them to use the Frequency Finder tool and to follow-up continuously in order to keep the Global frequency database updated. Further, he requested that new assignments or modifications should be made from now on using the Frequency Finder.

3.2 The participants thanked ICAO for organizing such a fruitful Workshop.

LIST OF PARTICIPANTS

| NAME | TITLE & ADDRESS |
|---|--|
| <p>STATES</p> <p>BAHRAIN</p> <p>Mr. Khalifa Ebrahim Khalifa Ahmed</p> | <p>SR Spectrum Planning Specialist Information & Government Authority Manama, BAHRAIN</p> |
| <p>EGYPT</p> <p>Mr. Abdelal El Sayed Abdelal El Zarei</p> | <p>GM of CNS Safety and Standards Ministry of Civil Aviation Complex Cairo – EGYPT</p> |
| <p>Mr. Ahmed Abdel Wahab Mohamed</p> | <p>CNS Inspector Ministry of Civil Aviation - ECAA Cairo Airport Road Cairo - EGYPT</p> |
| <p>Mr. Ahmed Saied Abdel Monsef Abdel Aziz</p> | <p>CNS Inspector – ANS Engineer Ministry of Civil Aviation - ECAA Cairo Airport Road Cairo - EGYPT</p> |
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| Mr. Sameer Abdulrahman Qttlan | Communication Engineer Saudi Air Navigation Services SAUDI ARABIA |
| UGANDA Mr. Gerald Agaba | Senior CNS Inspector Civil Aviation Authority UGANDA |

| NAME | TITLE & ADDRESS |
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| Mr. David Macho | Senior Technical Officer Civil Aviation Authority UGANDA |
| UNITED ARAB EMIRATES Mr. Abdulrahman Ahmed Hassan Al Maeeni | Engineer Terrestrial Services Telecommunications Regulatory Authority (TRA) UNITED ARAB EMIRATES |
| Mr. Ahmed Yousif Al Obeidli | Senior Air Navigation Inspector General Civil Aviation Authority UNITED ARAB EMIRATES |
| Mr. Gregory John Kurten | Director of CNS General Civil Aviation Authority UNITED ARAB EMIRATES |
| Mr. Mohamed Abdulla Saleh Al Marzouqi | Assistant Engineer Spectrum Allocation Telecommunications Regulatory Authority (TRA) UNITED ARAB EMIRATES |
| ORGANIZATIONS/INDUSTRIES GCC Mr. Ali A. Hameed Saleh | Telecommunication Engineer Gulf Cooperation Council/Telecommunications Bureau GCC Manama - BAHRAIN |
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