

First meeting of the Frequency Management Working group (FM WG/1)

Virtual meeting



28-29/7/2020

Day 1 presentation





Welcome & Introduction

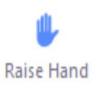


Meeting Notes











Keep Mic muted

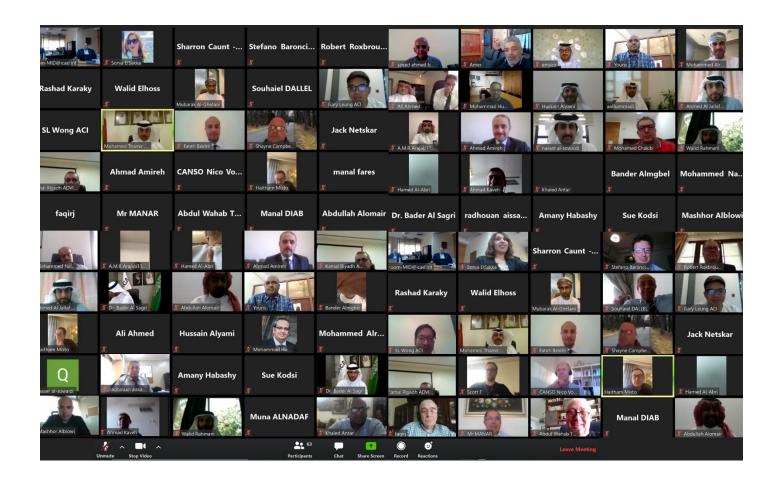
Unmute your mic only when invited to speak

Switch off camera if the quality of Internet is not good use "Raise hand" or chat box if you wish address question or comment Meeting is recorded



Group Photo







Meeting Agenda



- 1 Adoption of provisional agenda
 - 2 Follow-up on MIDANPIRG/17 & MSG/6 conclusions relevant to FM
 - 3 Update on frequency finder tool
 - 4 Spectrum capacity assessment for the band 108-117.975 MHz
- 5 Future work programme
- 6 any other business





No.	Conclusions & Decisions	Concerns/ Challenges/ Rationale	Deliverable initiated by		Target Date	Status/ Remarks
C. 6/26	Registered Frequency Update That, for an optimized frequency assignment process and in order to ensure that assigned frequencies to MID States are not interfering, States that have not yet done so, be urged to: a) verify and update existing registered frequencies in the COM list b) add any missing frequencies with the full details, where applicable; c) delete unused frequencies; d) send the changes in excel format generated by the FF export function; and e) provide the ICAO MID Office with feedback before 15 February 2019.	To optimize frequency assignment process and reduce interferences	State Letter Registered frequency database is up to date	ICAO States	Dec. 2018 15 Feb. 2019	Actioned/Completed SL Ref. AN 7/5.7 – 18/410 dated 19 December 2019. Replies received from Bahrain, Egypt, Iraq, Kuwait, Qatar, Saudi Arabia, Sudan, and UAE





No.	Conclusions & Decisions	Concerns/ Challenges/ Rationale	Deliverable initiated by		Target Date	Status/ Remarks
C. 6/25	Frequency Management Workshop That, ICAO consider the organization of a Workshop on the Frequency Finder Tool jointly with ACAO in 2020.	10 protect	Frequency Managem ent workshop	ICAO MID	2020	Ongoing

The ACAO/ICAO Frequency Management workshop is postponed to 1-5 November 2020 (Casablanca, Morocoo) Back to back with the FM WG/2 meeting





No.	Conclusions & Decisions	Concerns/ Challenges/ Rationale	Deliverable initiated b		Target Date	Status/ Remarks
C. 17/33	That, the Frequency Management Ad-hoc Working Group be established with Terms of Reference as at Appendix 6.2U.	To support States in fulfilling ICAO Radio Frequency Spectrum Requirements	State Letter	ICAO	August 2019	SL AN7/38 – 19/243 dated 6 Aug. 2019 (Replies: Bahrain, Egypt, Iraq, Jordan, Kuwait, Lebanon Oman & Qatar) First meeting of the FM WG/1 will be conducted via VTC in July 2020 to address urgent matters

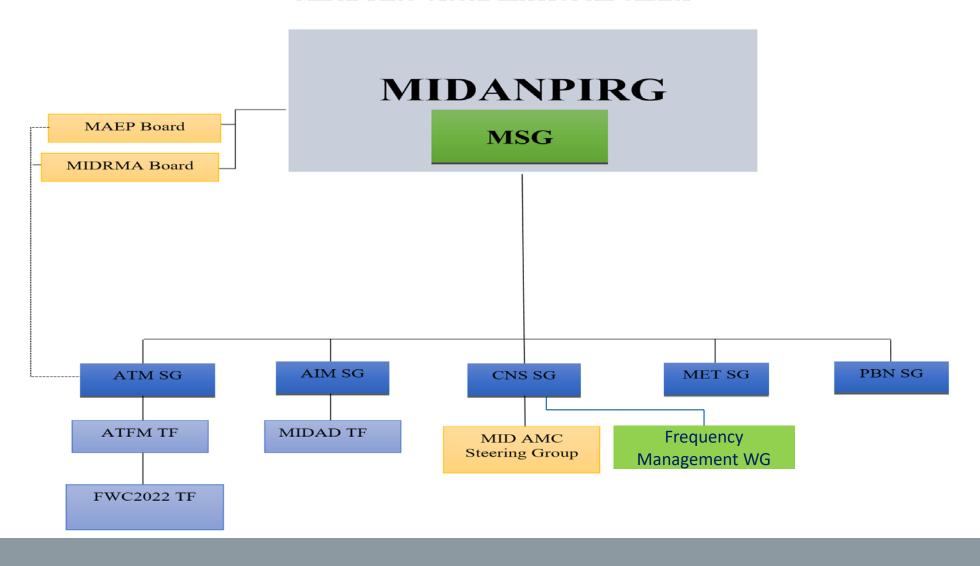
- The MIDANPIRG/17 meeting agreed to establish a Frequency Management Ad-hoc Working Group
- composed of representatives from States (CAA and TRA) to:
 - support States in fulfilling ICAO Radio Frequency Spectrum Requirements
 - develop MID Region frequency assignment plan
- find solutions for the interference occurrences between MID States in a timely manner

.

etc.



MIDANPIRG ORGANIZATIONAL CHART







No.	Conclusions & Decisions	Concerns/ Challenges/ Rationale	Deliverabl initiated b		Target Date	Status/ Remarks
C. 6/27	That, States, that have not yet done so, be invited to assign Frequency Management Focal Points by 15 February 2019, for a better coordination of frequency management issues, including harmful interference.	frequency interferences	Frequenc y focal points	States	15 February 2019	Actioned/completed SL Ref. AN 7/5.7 – 18/411 dated 19 December 2019 Replies received from Bahrain, Egypt, Iraq, Jordan, Kuwait, Saudi Arabia, Sudan and UAE



FM WG members



STATE	MEMBER	ALTERNATE
Bahrain	Mr. Ali Abdul Latif Tulefat	
	Mr. Yousif Bucheeri	
EGYPT	Mr. Ahmed Mostafa Mohamed	Mr. Ahmed Abdel Wahab
LOTFI	Arman	Mr. Ahmed saied abdel monsef
IRAN	Mr. Mojtaba Chatrooz	Mr. Ali Ashtiani
IRAQ	Eng. Ali Abd AL-Saheb Mahdi	
JORDAN	Eng. Amena Dodin	Eng. Neveen Askar
Kuwait	Eng. Fahad Saleh Albaloushi	



FM WG members



STATE	MEMBER	ALTERNATE
LEBANON	ENG. AMIN JABER	ENG. MOHAMAD SAAD
LIBYA		
OMAN	Mr. Musleh Abdullah Al Jahdhami	Mr. Said Hussain Al Balushi
QATAR	Mr. Saleh Al Mansoori	Mr. Nayif Al Jaber
SAUDI ARABIA	Mr. Turki Yousef	Eng. Ridah Salah Dridi
SUDAN		
SYRIA	Mr. Nadim Salim	
UAE	ENG. JACOB AVIS	ENG. ABDELRAHMAN AL MUAINI
Yemen		



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Frequency coordination process

- > The current practice of frequency coordination
 - a) Frequency coordination is performed by the Regional Office
- b) States/GCC can submit to the Regional Office their requests for new or modified frequency assignments in any format (e.g. letter, email)
- The introduction and use of the ICAO Frequency Finder tool for the coordination of frequency assignments within the MID Region as well as with adjacent Regions has presented the opportunity to improve the efficiency in the frequency coordination and frequency assignment processes
- Harmful interference incidents management process.



Frequency coordination process

Preferred format:

Frequency Finder tool offer the option of **generating electronic submissions** for new or modified frequency assignments.

This option permits States to **check a selected frequency** to satisfy any operational need and to **check the compatibility** of this (proposed) frequency with other frequency assignments in the Frequency List.

The electronic submission(s), in the format of an **Excel file**, can be sent to the ICAO Regional Office



Frequency Finder Tool (FF Tool)

- FF tool latest version (FF2020.04R) is provided with more functional modules, inter alia, new VHF NAV and Mode S SSR II code modules
 https://www.icao.int/safety/FSMP/Pages/Documents.aspx?RootFolder=%2Fsafety%2FFSMP%2FDocuments%2FFrequencyFinder&FolderCTID=0x012000B1461A5DA8C64241AA4DE4F91CB1D9AF&View=%7BE11C4C29%2DDD83%2D4B87%2DAAAE%2D2330E3DE14D8%7D
- The technical aspects of the frequency coordination are contained in the ICAO Handbook on Radio Frequency Requirements for Civil Aviation (Doc. 9718), Volume II.



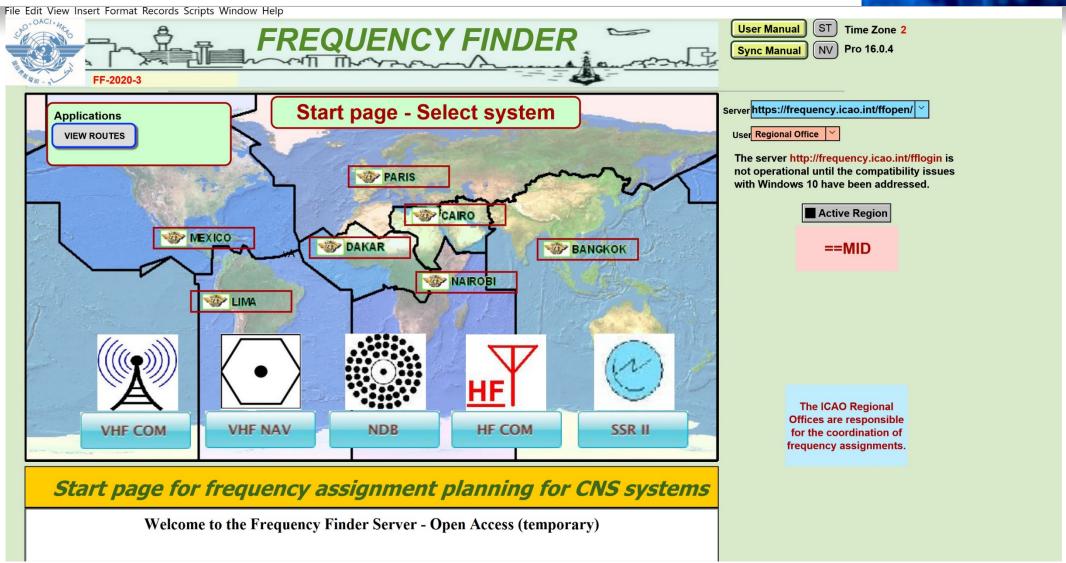
The Minimum System Requirements for Operating Frequency Finder (FF)

- MS Windows 7 or higher
- CPU: Intel Core i5 or better, or equivalent AMD recommended
- RAM: 2GB or higher
- Video display with resolution of 1440 x 900 (or better) recommended
- Google Earth installed on the computer
- The user should have right to install a programme on the computer
- The runtime version does not require FileMaker Pro to be installed on the computer.



UNITING AVIATION

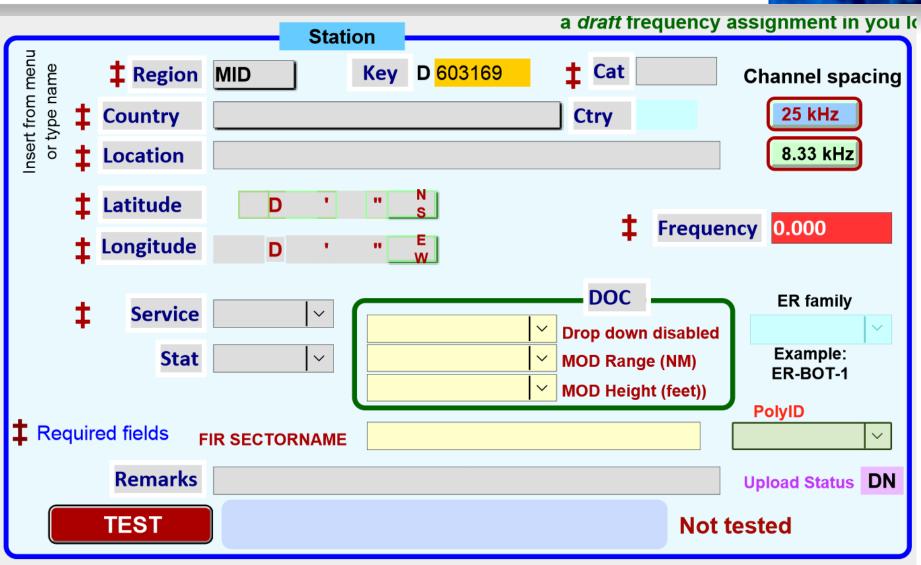






UNITING AVIATION

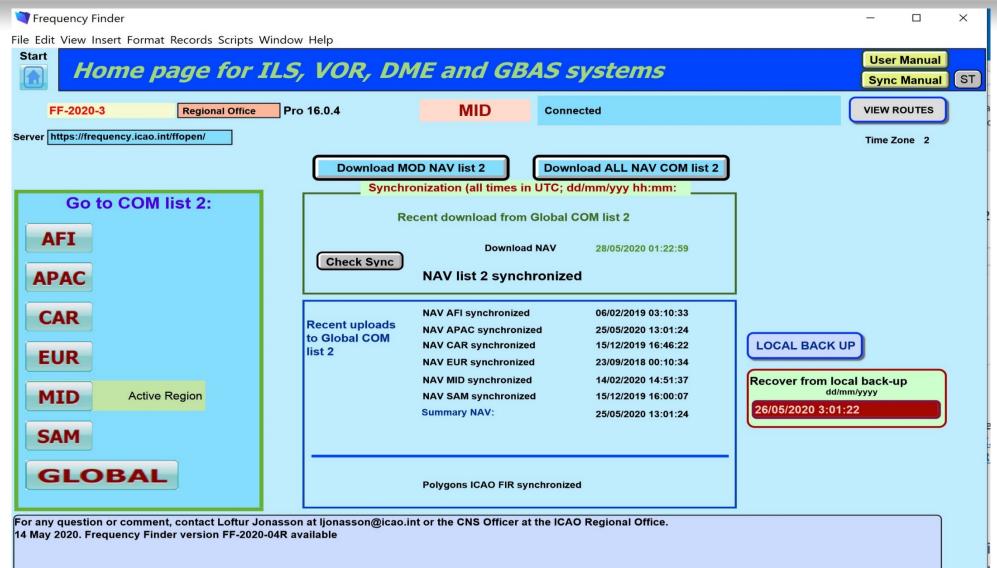




- ➤ Its very important that states provide accurate information to the extent possible about frequency usage.
- Designated Operational Coverage (Range and height)
- ➤ Inaccurate info may result in either:
 - an overprotection of the desired facility or,
 - an erroneous incompatibility of current frequency assignments
- ➤ ICAO MID office issued a state letters Ref: AN7/5.7-20/117 dated 21 May requesting States to review and update the registered frequencies in the ICAO COM List2 using the exported Excel form.
- Reply received from 12 States (Bahrain, Egypt, Iraq, Iran, Jordan, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, Syria and UAE)

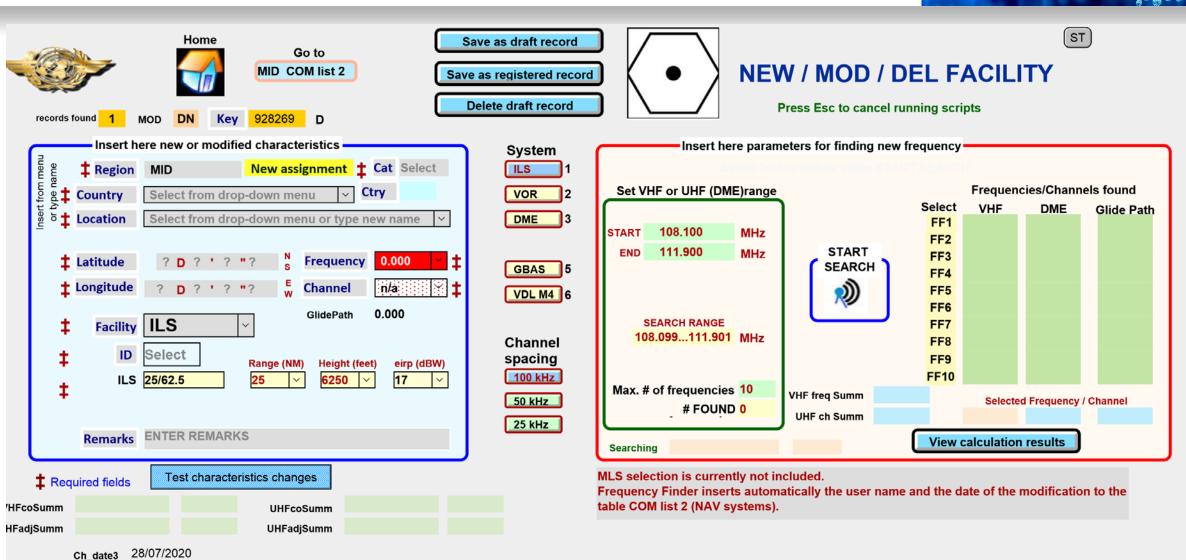












- In some cases, it may be possible that States have put into operation NAV facilities with frequency assignments that have not been coordinated with ICAO. This may result in such facilities not being protected from harmful interference or such facilities causing harmful interference to facilities for which the frequency assignment has been coordinated with ICAO.
- it is recognized that some NAV facilities are in operation and do not cause harmful interference to NAV facilities that are in operation in adjacent countries may not require coordination with ICAO; in these cases, States themselves are responsible for the necessary (internal) frequency coordination.
- ICAO holds the view that frequency assignments that have been coordinated with ICAO have priority over those that have not been coordinated.



- The meeting is invited to urge States to:
- 1) Download the latest version of the FF tool;
- 2) Provide ICAO with updated frequency list for COM VHF and NAV with accurate info to the extent possible if have not done so;
- 3) Use FF tool in frequency coordination process;
- 4) Provide feedback on FF tool usage, suggestions, bugs, recommendations,...,etc;
- 5) Nominate FM members if have not done so; and
- 6) Participate actively in the frequency management workshop planned in November 2020 and FM WG/2 meeting in Morocco.



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Day 2 Meeting time: 1000 UTC???

Zoom invitation will be sent in a while



