



ICAO

# INTERNATIONAL CIVIL AVIATION ORGANIZATION

A UN SPECIALIZED AGENCY



# ICAO Workshop on Frequency Finder

## Introduction

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Nairobi, Kenya, 12 – 16 August 23

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## Frequency Finder Workshop (Nairobi, Kenya 12 – 16 August 2024)

## Amended Tentative Programme

Local Time	Monday - 12 August 2024	Tuesday – 13 August 2204	Wednesday - 14 August 2024	Thursday – 15 August 2024	Friday – 16 August 2024
0900 - 0930	Opening/Group photo	Handbook Volume II: Frequency assignment planning criteria (Handbook 2A)	Handbook Volume II: Frequency assignment planning criteria (Handbook 3A)	Using Frequency Finder: •Other Functions (FF5A)- •Exercise- Export submission- •Exercise - Export COM list 3/ undo submission(s)	•The 5G/RA issue •Future Work -CNS and Spectrum •SSR Module (FF SSR 1A)
0930 - 1000	Installing the runtime version of Frequency Finder (FF1A)				
10:00 - 10:30	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>
10:30- 11:30	Handbook Volume II: General principles in planning the assignment of aeronautical frequencies (Handbook 1A)	Using Frequency Finder: •Compatibility testing •Analyze detailed calculation results (FF3A. Cont.)- Exercise – understand the results	Using Frequency Finder Add, Modify or Delete frequency assignments from COM list 3 (FF4A cont.)- Exercise – ER/ area service	•Current AFI frequency allotment (RO) •Amendment of the AFI frequency allotment	•Discussions with individual States on issues related to the frequency assignment plan  •Closure
11:30 - 12:30	<i>Lunch break</i>	<i>Lunch break</i>	<i>Lunch break</i>	<i>Lunch break</i>	<i>Lunch break</i>
12:30 - 13:30	Using Frequency Finder: Integrity Check, Navigating the COM List 3 (FF2A)	Using Frequency Finder; - Add, Modify or Delete frequency assignments from COM List 3 (FF4A)	•Specific use of VHF COM frequencies in AFI •Coordination procedure in AFI •Interregional coordination	Outcome of WRC-23 Resolutions A41-7 and A41-8  <b>Preparation for WRC-27?</b>	
13:30 - 14:00	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>	
14:00 - 15:30	Navigating through the COM List 3 (FF3A) •Exercise – Test frequency •Exercise – Compatibility Check in your State	Using Frequency Finder: Add, Modify or Delete frequency assignments from COM List 3 (FF4A) Cont.,	•Update COM List 3 data	NAV Module (FF NAV 1A)  Update COM List 2 data	

Note: 0830 - 0900 on Monday, Registration of participants.

## Reminder:

# Before attending the workshop

Participants are encouraged to:

- Install the latest version of Frequency Finder software (**FF2023.03.RT.exe**) to the computers

(<https://www.icao.int/safety/FSMP/Documents/Forms/AllItems.aspx?RootFolder=%2fsafety%2ffsmp%2fdocuments%2ffrequencyfinder&FolderCTID=0x012000B1461A5DA8C64241AA4DE4F91CB1D9AF>)

- Install Google Earth to the computer (<https://www.google.com/earth/versions/#earth-pro>)

*Note. – For more details refer to the User Manual : Installing Frequency Finder (Run-time version)*

- Visit FSMP website or ICAO NET to review ICAO Doc 9718, Volume II

<https://www.icao.int/safety/FSMP/Pages/Documents.aspx?RootFolder=%2F%2fsafety%2FFSMP%2FDocuments%2FDoc9718&FolderCTID=0x012000B1461A5DA8C64241AA4DE4F91CB1D9AF&View=%7BE11C4C29%2DDDD83%2D4B87%2DA0AE%2D2330E3DE14D8%7D>



## Before attending the workshop

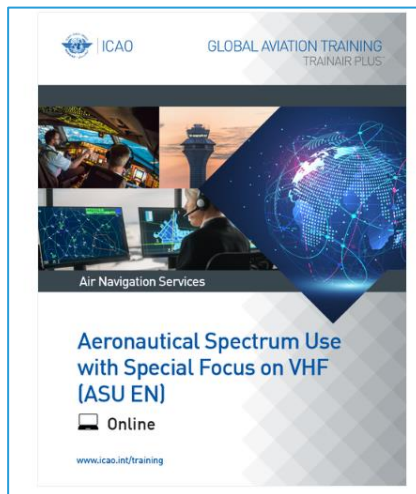
### *Recommendation:*

To be adequately prepared for attending the Frequency finder workshop and to gain the necessary frequency management basics,

it is recommended to take the following online web course.

### *“Aeronautical Spectrum Use with Special Focus on VHF”*

(<https://store.icao.int/en/aeronautical-spectrum-use-special-focus-training>)



#### **Description**

##### **Goal**

This course aims to provide the fundamentals of frequency and spectrum management, focusing mainly on Very High Frequency (VHF) used by aeronautical communications systems, as well as a description of the specific terms used in frequency management in civil aviation including a brief discussion about aeronautical communications and navigation systems.

## *Reminder:*

Participants must bring:

- their Windows PC that has the runtime version of the Frequency Finder software and Google Earth installed in it.
- The latest VHF COM and NAV frequency assignment data in order to update the FF database



## About the Frequency Finder tool

### How did it all start?



- ➔ Frequency Finder has been developed with FileMaker Pro Advanced
- ➔ Frequency assignment planning criteria as per the Handbook Volume II implemented
- ➔ Calculation of interference areas, assessing compatibility between frequency assignments /searching for compatible SSR II /SI codes
- ➔ Graphical interface with Google Earth
- ➔ Plotting interference
- ➔ VHF COM Module and NAV Module in the Frequency Finder tool. Also SSR II/SI Code stand-alone Module is accessible from the FF tool.
- ➔ Global COM list 2, COM list 3 and Table of SSR Mode S II Codes are maintained by Regional Offices



Thank You!