



| ICAO

INTERNATIONAL CIVIL AVIATION ORGANIZATION

A UN SPECIALIZED AGENCY



Workshop/Training on “Frequency Finder 2023” application

Introduction

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PROVISIONAL AGENDA

- ❑ Agenda Item 1: Introduction
- ❑ Agenda Item 2: Aeronautical Frequency Planning
 - Explaining the planning criteria
 - Current CAR/SAM frequency allotment plans
 - Amendment of the CAR/SAM frequency allotment plans
- ❑ Agenda Item 3: Frequency Finder (FF) Tool
 - Frequency Finder Tool requirements, functions and installation
- ❑ Agenda Item 4: VHF COM Module
 - Performing Basic exercises (Scenarios prepared)
 - Updating the States frequencies in the Global database
- ❑ Agenda Item 5: VHF NAV Module
 - Performing Basic exercises (Scenarios prepared)
 - Updating the States frequencies in the Global database

Tentative Schedule

HORA (Local)	Monday 29 May 2023	Tuesday 30 May 2023	Wednesday 31 May 2023	Thursday 01 June 2023	Friday 02 June 2023
09:00 09:30	Opening	Handbook Volume II; Frequency assignment planning criteria (Handbook 2A)	Handbook Volume II; Frequency assignment planning criteria (Handbook 3A)	Using Frequency Finder: other functions (FF5A) <i>Exercise – export (submission)</i> <i>Drill – undo submission</i>	The 5G issue Future Work - CNS and Spectrum SSR module (FF SSR 1A)
09:30 10:35	Installation of the FF run-time version				
10:30 11:00	<i>Pause</i>	<i>Pause</i>	<i>Pause</i>	<i>Pause</i>	<i>Pause</i>
11:00 12:30	Handbook Volume II; General principles in planning the assignment of aeronautical frequencies (Handbook 1A)	Using Frequency Finder: Compatibility Test; Analyze detailed calculation results (FF3A. Cont.) <i>Exercise – results obtained</i>	Using Frequency Finder: Add, modify or delete (FF4A.Cont.) <i>Exercise – ER service area</i>	- Current CAR/SAM frequency assignment (RO) - Modification of the CAR/SAM frequency assignment	Discussions with the different States on issues related to the frequency assignment plan
12:30 13:30	<i>Lunch break</i>	<i>Lunch break</i>	<i>Lunch break</i>	<i>Lunch break</i>	
13:30 14:15	Using Frequency Finder: Integrity Check, COM3 List Query and Navigation (FF2A)	Using Frequency Finder: Add, Modify, or Remove Frequency Assignments from the COM 3 List (FF4A)	- Presentation of the specific use of COM frequencies in the CAR/SAM regions - Coordination procedure in the CAR/SAM regions Interregional coordination	NAV module (FF NAV 1A) Update COM2 data	Closure and group photo
14:15 14:30	<i>Pause</i>	<i>Pause</i>	<i>Pause</i>	<i>Pause</i>	
14:30 15:15	Using Frequency Finder: COM3 List Navigation Frequency test (FF3A) <i>Exercise – Freq Test</i> <i>Exercise – Compatibility</i>	Using Frequency Finder: Add, Modify, or Remove Frequency Assignments from the COM 3 List (FF4A)	Update of information COM3 List	WRC Process WRC 23 Schedule	

Reminder:

Before attending the workshop

Participants are encouraged to:

- Install the latest version of Frequency Finder software (**FF2023.01.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%2D%2D83%2D4B87%2DA0AE%2D2330E3DE14D8%7D>

Before attending the workshop

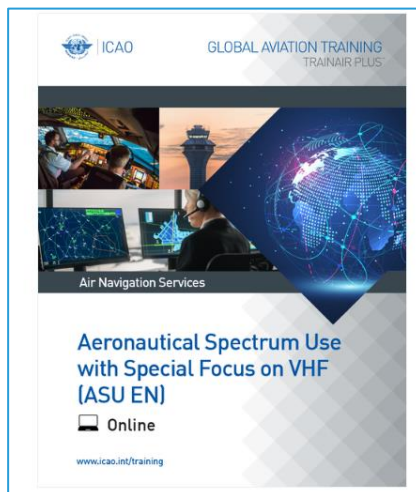
Recommendation:

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 available.
- Global COM list 2, COM list 3 and Table of SSR Mode S II Codes are maintained by Regional Offices



Thank You!