



Platinum Coast Amateur Radio Society Narrow Band Emergency Messaging System (NBEMS) Presentation



Thanks to the Wellington Radio Club for their interest and support of NBEMS implementation and training.

Much of the information in this presentation was extracted and updated from their NBEMS presentation.

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Hilton Head Island, SC 29928

A special thanks to Larry Lazar KS4NB for presenting NBEMS to PCARS Members and being available to answer any related questions.

To use the Basic NBEMS program one only needs to download and configure two free programs.

This presentation will guide you in the process of downloading, installing and configuring both fldigi 4.0.x and flmsg 4.0.x

Download fldigi 4.0.x and flmsg 4.0.x

Go to:
<https://sourceforge.net/projects/fldigi/> to download fldigi

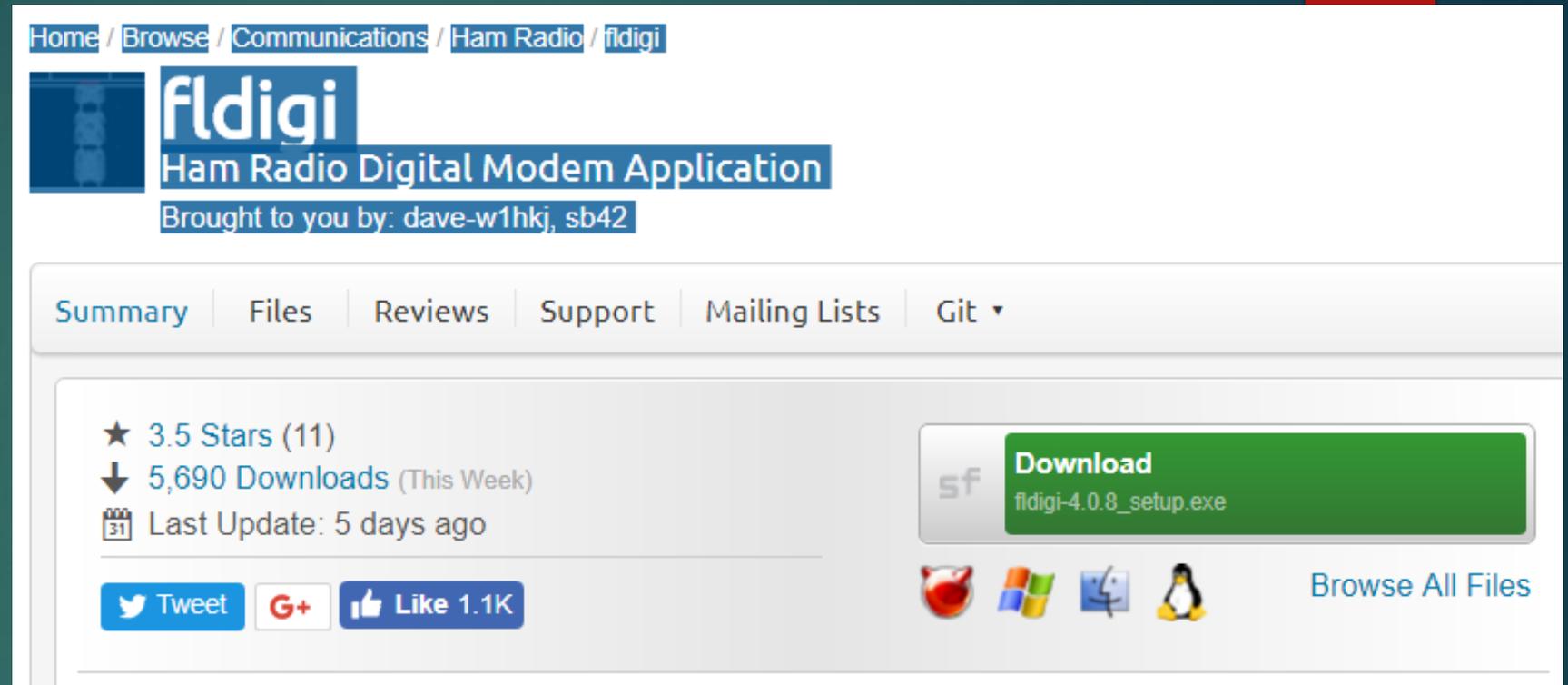
Click on the green **Download** fldigi-4.0.x_setup.exe button

NOTE: The fldigi and flmsg files may also be obtained from:
<http://www.w1hkj.com/files/fldigi/>

When the download is completed, your computer will give you a warning

Click on the **Keep** button

Navigate to your computer Download folder and double click on **fldigi-4.0.x_setup**. The **fldigi-4.0.x_setup: License Information** popup will appear



Home / Browse / Communications / Ham Radio / fldigi

fldigi

Ham Radio Digital Modem Application

Brought to you by: dave-w1hkj, sb42

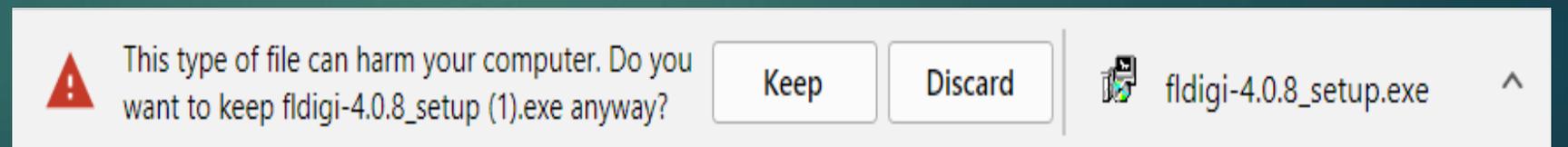
Summary | Files | Reviews | Support | Mailing Lists | Git ▾

★ 3.5 Stars (11)
↓ 5,690 Downloads (This Week)
📅 Last Update: 5 days ago

Download
fldigi-4.0.8_setup.exe

[Browse All Files](#)

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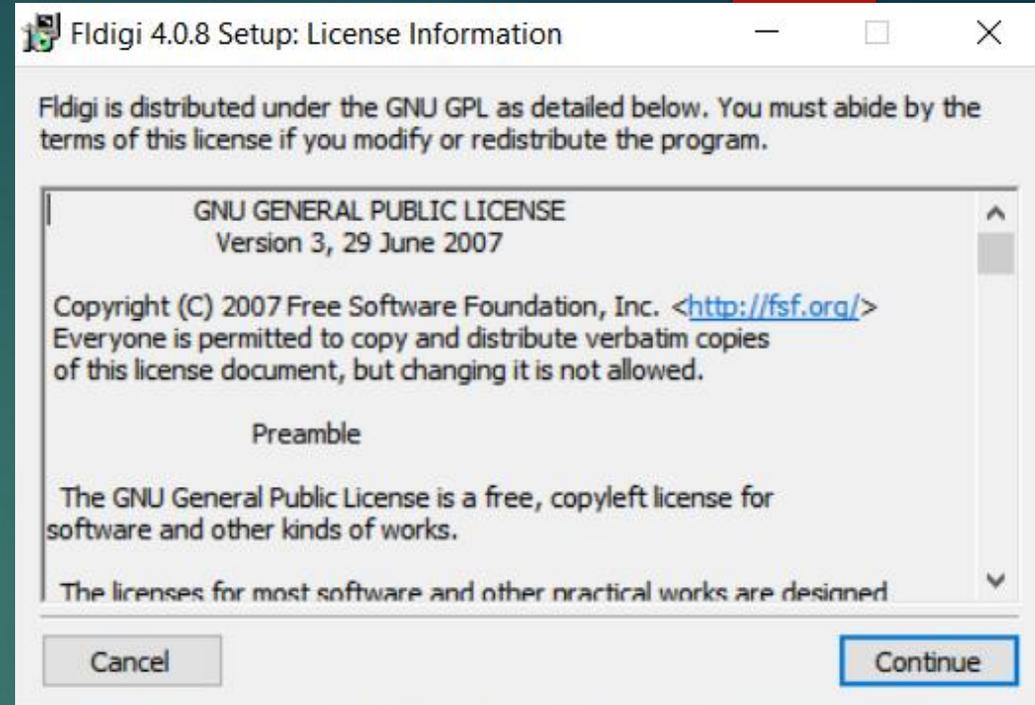


⚠ This type of file can harm your computer. Do you want to keep fldigi-4.0.8_setup (1).exe anyway?

[Keep](#) [Discard](#)

 fldigi-4.0.8_setup.exe ^

On the **fldigi-4.0.x_Setup: License Information** popup,
Click the **Continue** button.

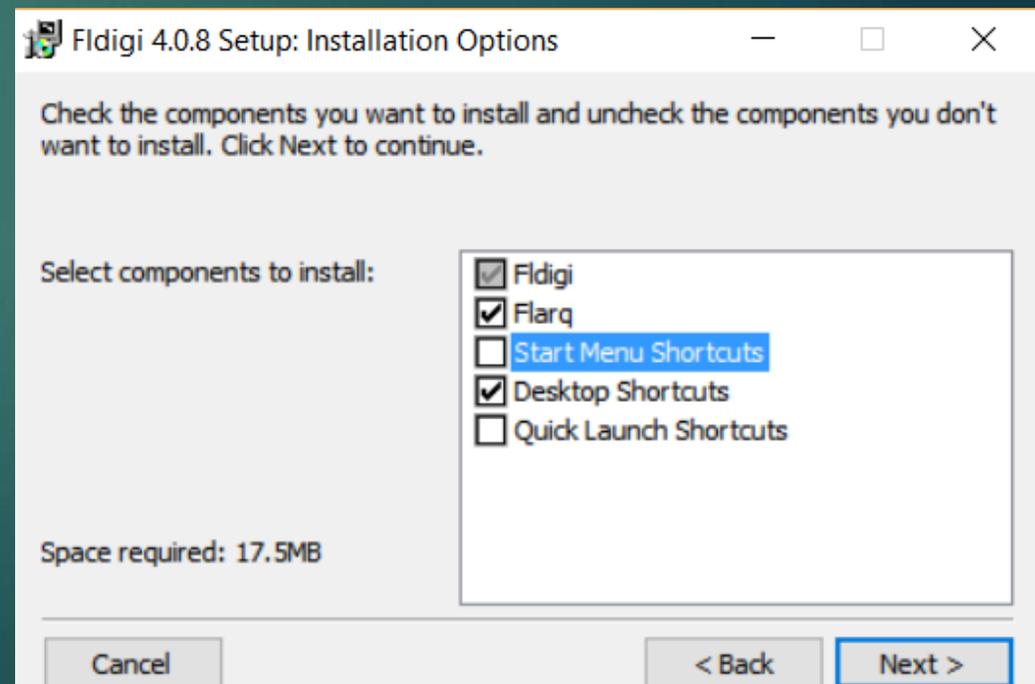


The **fldigi 4.0.x Setup: Installation Options** popup will
appear

Uncheck the Start Menu Shortcuts.

Click the **Next** button

The **fldigi 4.0.x Setup: Installation Folder** popup will
appear



On the **fldigi-4.0.x_Setup: Installation folder** popup, We will accept the default destination folder, C:\Program Files (x86)\Fldigi-4.0.x

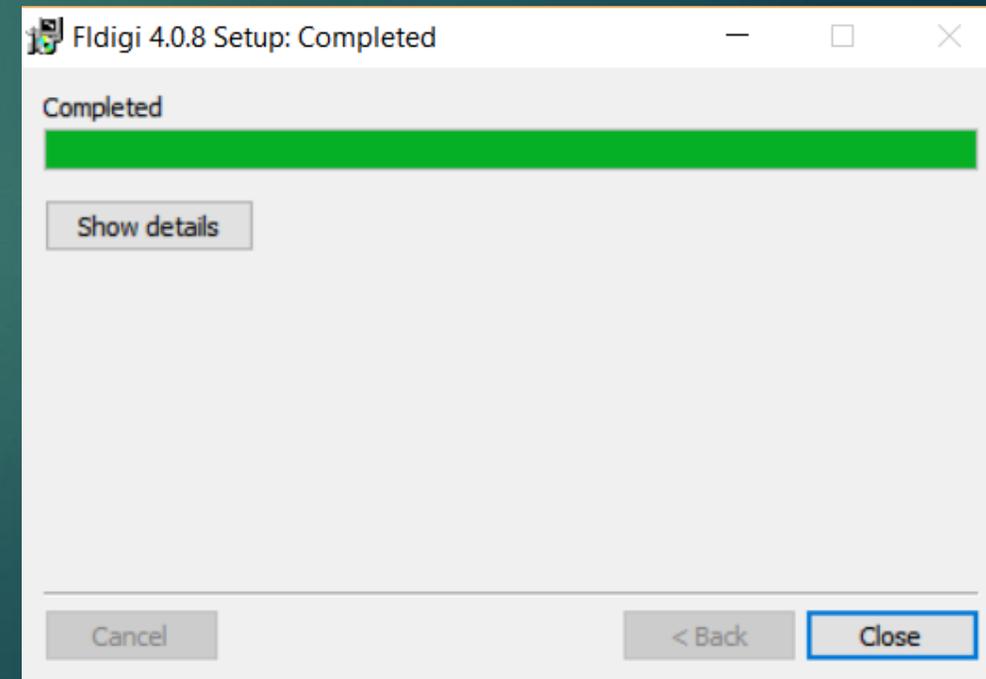
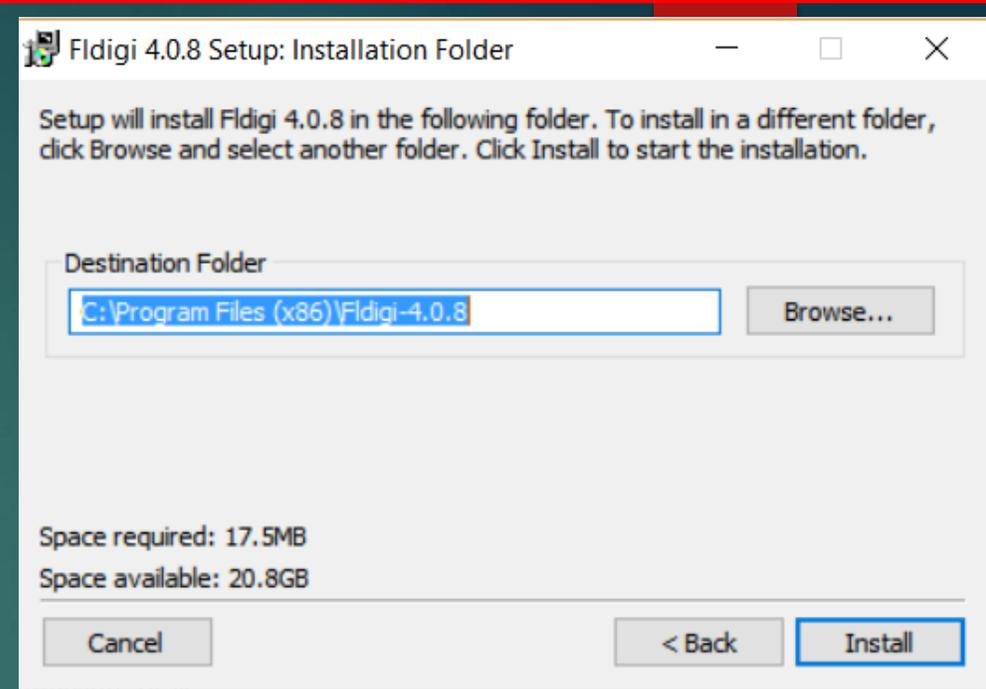
Click the **Install** button.

Fldigi 4.0.x will be installed and the **Fldigi 4.0.x Setup: Completed** popup will appear

Click the **Close** button

This completes the installation of Fldidi 4.0.x on your computer.

Next let's download and install Flmsg 4.0.3



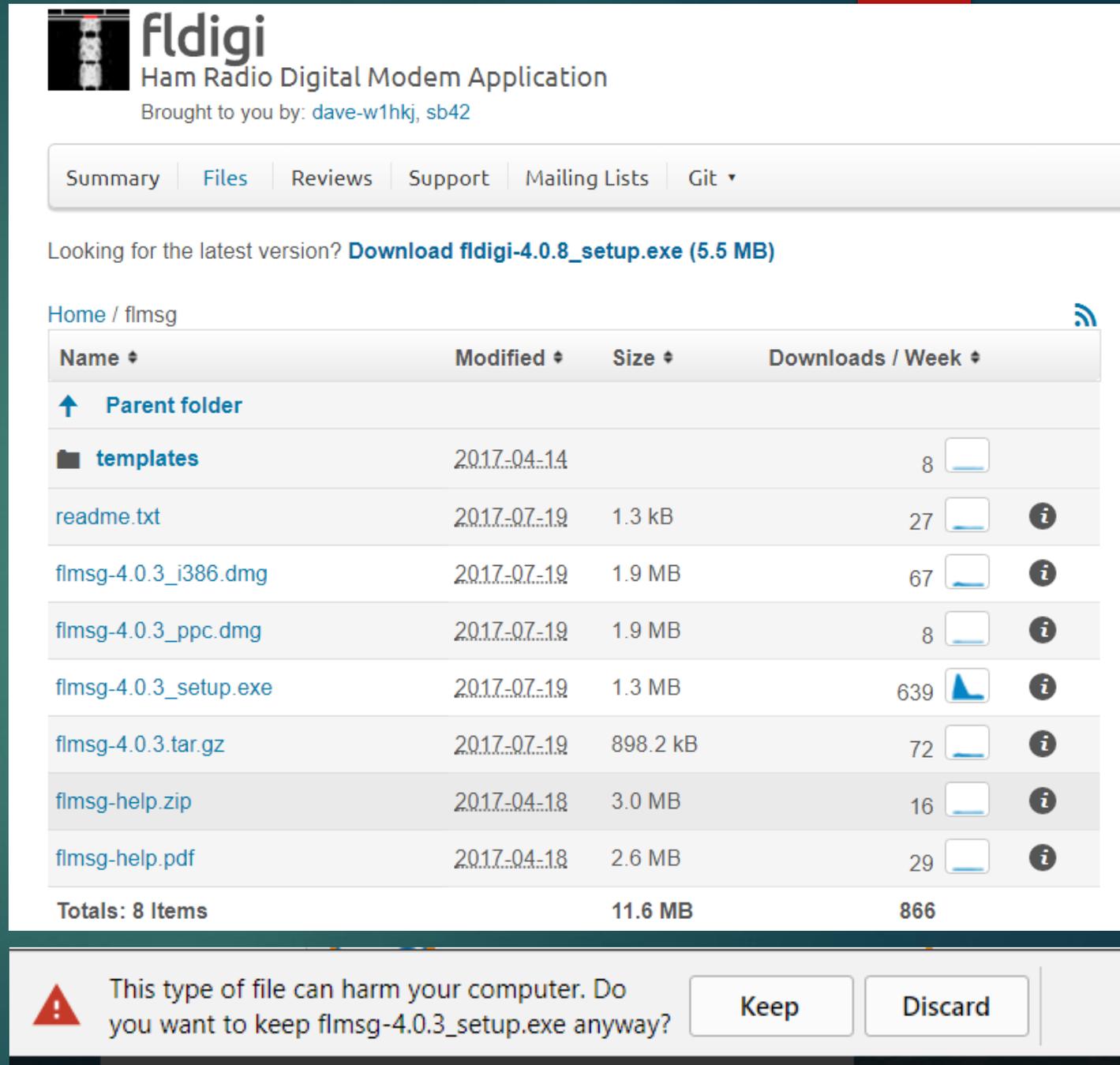
Go to:
<https://sourceforge.net/projects/fldigi/files/flmsg/>

Click **flmsg-4.0.x_setup.exe**

When the download is completed,
your computer will give you a warning

Click on the **Keep** button

Navigate to your computer Download
folder and double click on **flmsg-4.0.3_setup**. The **flmsg-4.0.3: License Information** popup will appear



fldigi
Ham Radio Digital Modem Application
Brought to you by: [dave-w1hkj](#), [sb42](#)

Summary | [Files](#) | Reviews | Support | Mailing Lists | Git ▾

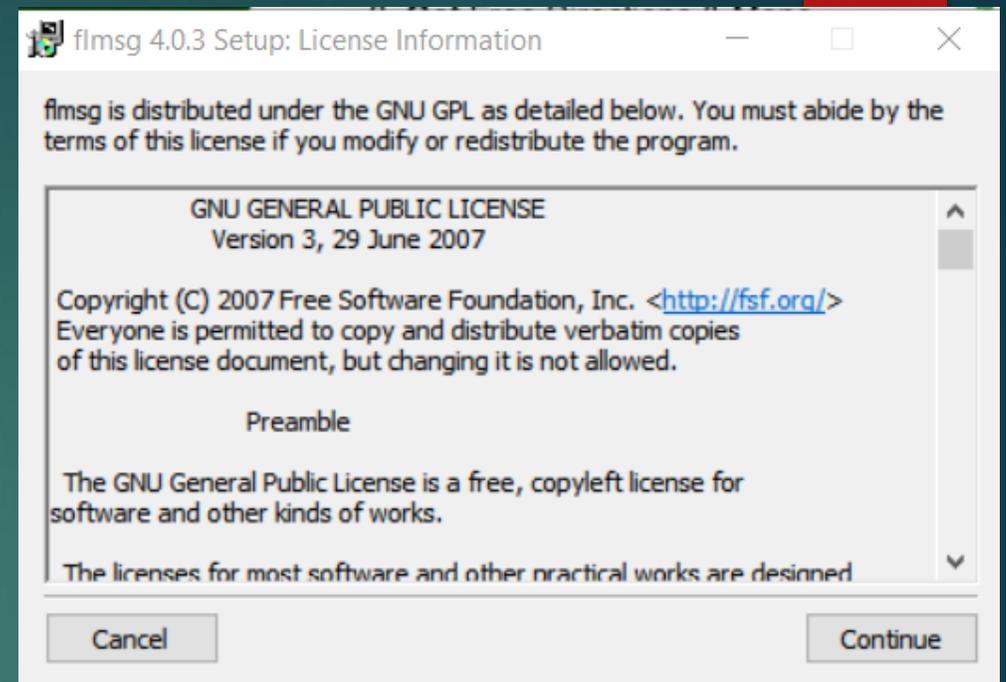
Looking for the latest version? [Download fldigi-4.0.8_setup.exe \(5.5 MB\)](#)

Home / flmsg

Name ↕	Modified ↕	Size ↕	Downloads / Week ↕	
↑ Parent folder				
📁 templates	2017-04-14		8	
readme.txt	2017-07-19	1.3 kB	27	i
flmsg-4.0.3_i386.dmg	2017-07-19	1.9 MB	67	i
flmsg-4.0.3_ppc.dmg	2017-07-19	1.9 MB	8	i
flmsg-4.0.3_setup.exe	2017-07-19	1.3 MB	639	i
flmsg-4.0.3.tar.gz	2017-07-19	898.2 kB	72	i
flmsg-help.zip	2017-04-18	3.0 MB	16	i
flmsg-help.pdf	2017-04-18	2.6 MB	29	i
Totals: 8 Items		11.6 MB	866	

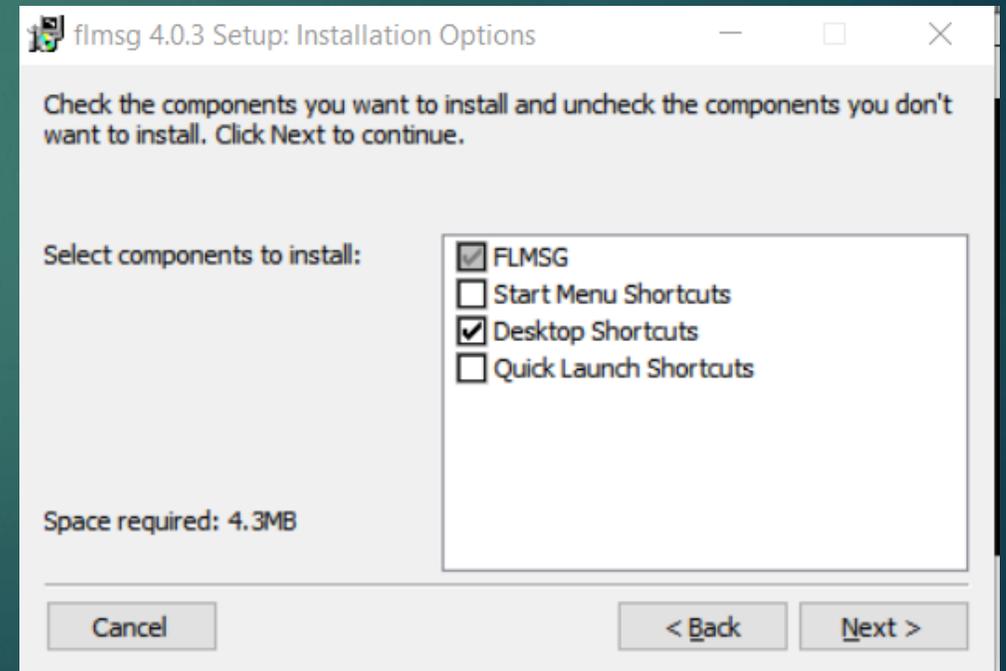
This type of file can harm your computer. Do you want to keep flmsg-4.0.3_setup.exe anyway? [Keep](#) [Discard](#)

On the **flmsg-4.03 Setup: License Information** popup, click **continue**.



The **fldigi 4.0.3 Setup: Installation options** popup will appear.

Select desired components as shown and then click **Next**.



The **fldigi 4.0.3 Setup: Installation folder** popup will appear.

On the **fmsg-4.03 Setup: Installation Folder** popup,

Accept the destination folder “C:\Program Files (x86)\fmsg-4.0.3

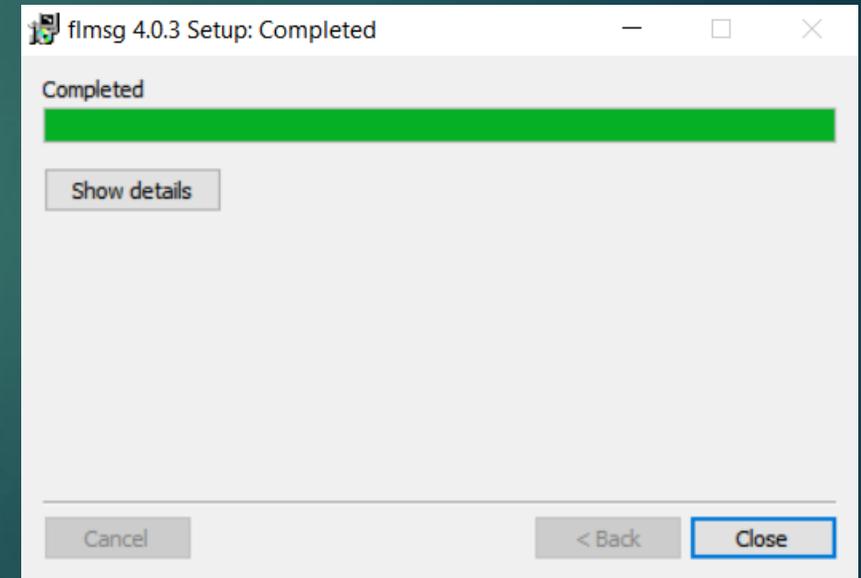
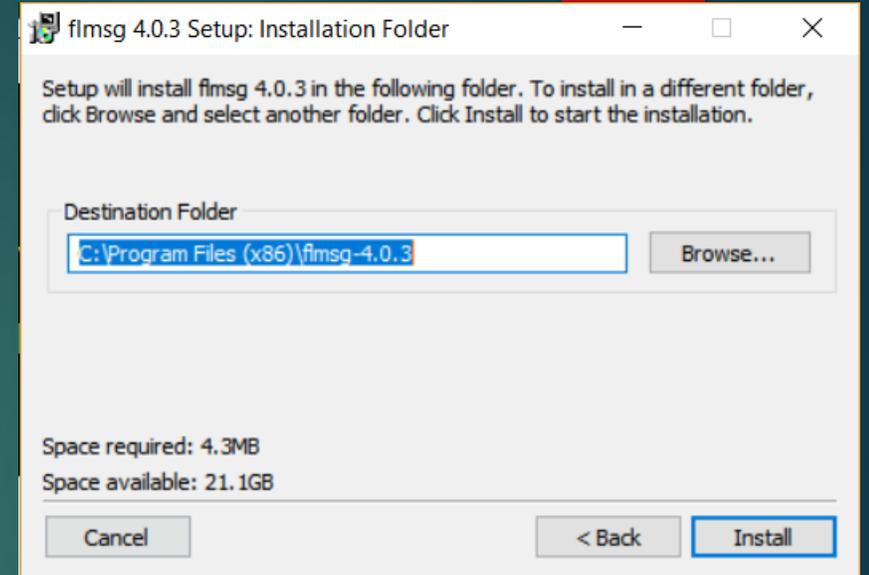
Click the **Next** button.

When the installation is completed the **fmsg-4.03 Setup: Completed** popup will appear.

Click **Close** button.

This completes the installation of Fmsg 4.0.3 on your computer.

Now let us configure Fldigi.

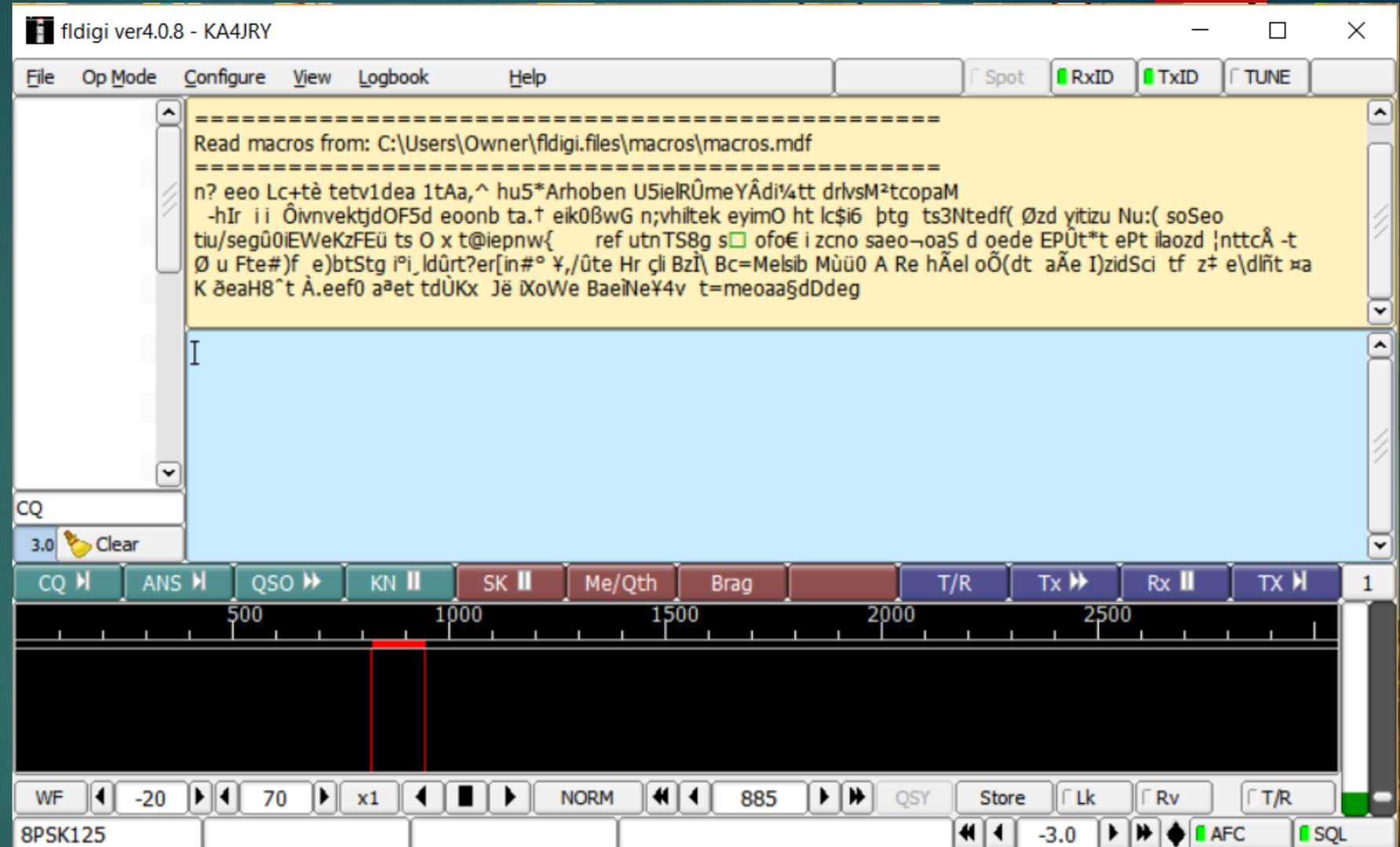


On your desktop click the fldigi 4.0.x Icon

The fldigi main screen will appear.

On the fldigi 4.0.x main screen click **Configure, UI, User Interface**

The fldig configuration screen will appear



Click the **UI, General** tab

Check **Show tooltips** and **Show menu icons** check boxes

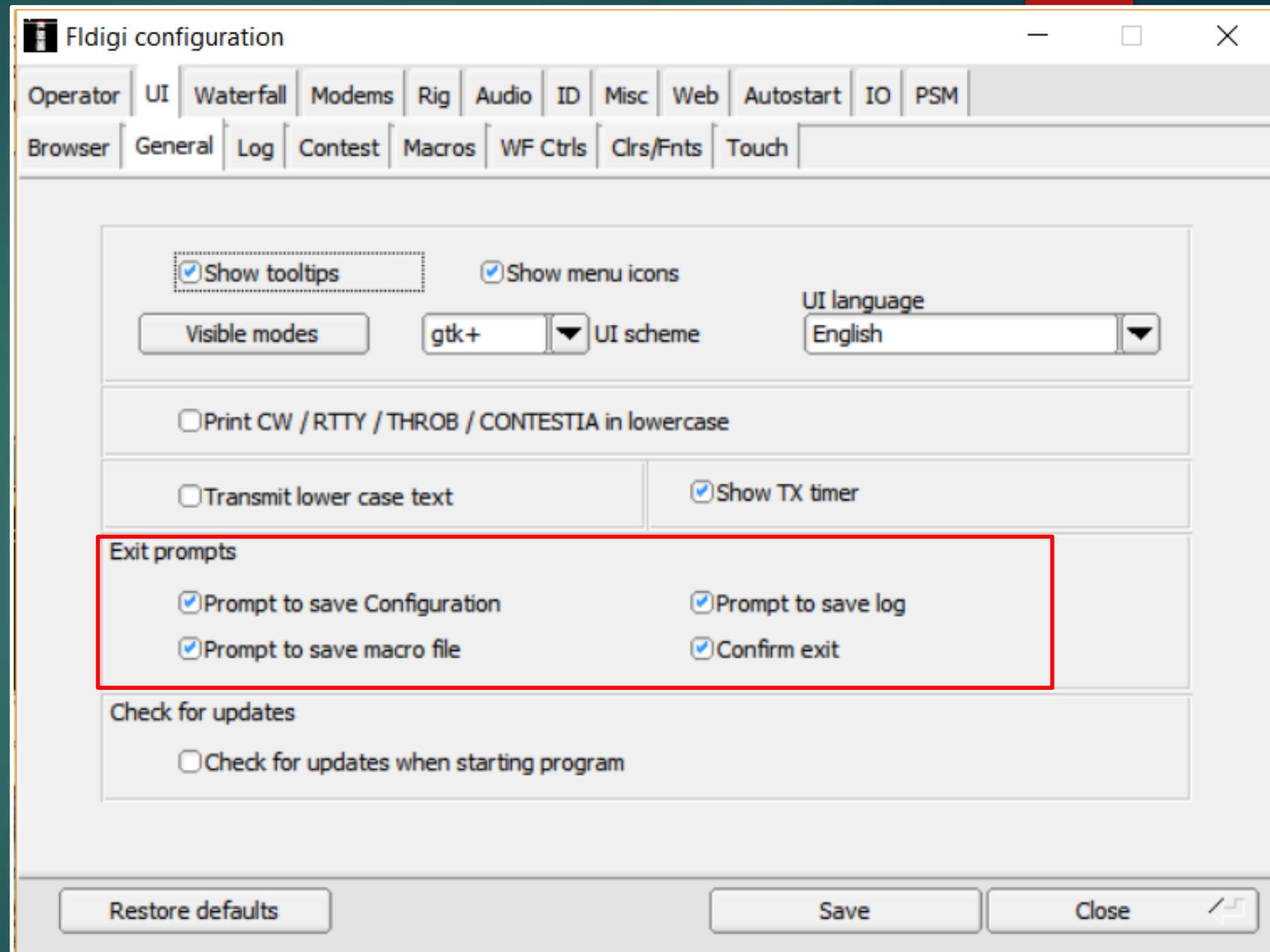
Check all 4 boxes under **“Exit Prompts”**

Leave all else at default

Click **Save**

Click the **Operator** tab

The fldigi **Station/Operator** configuration screen will appear



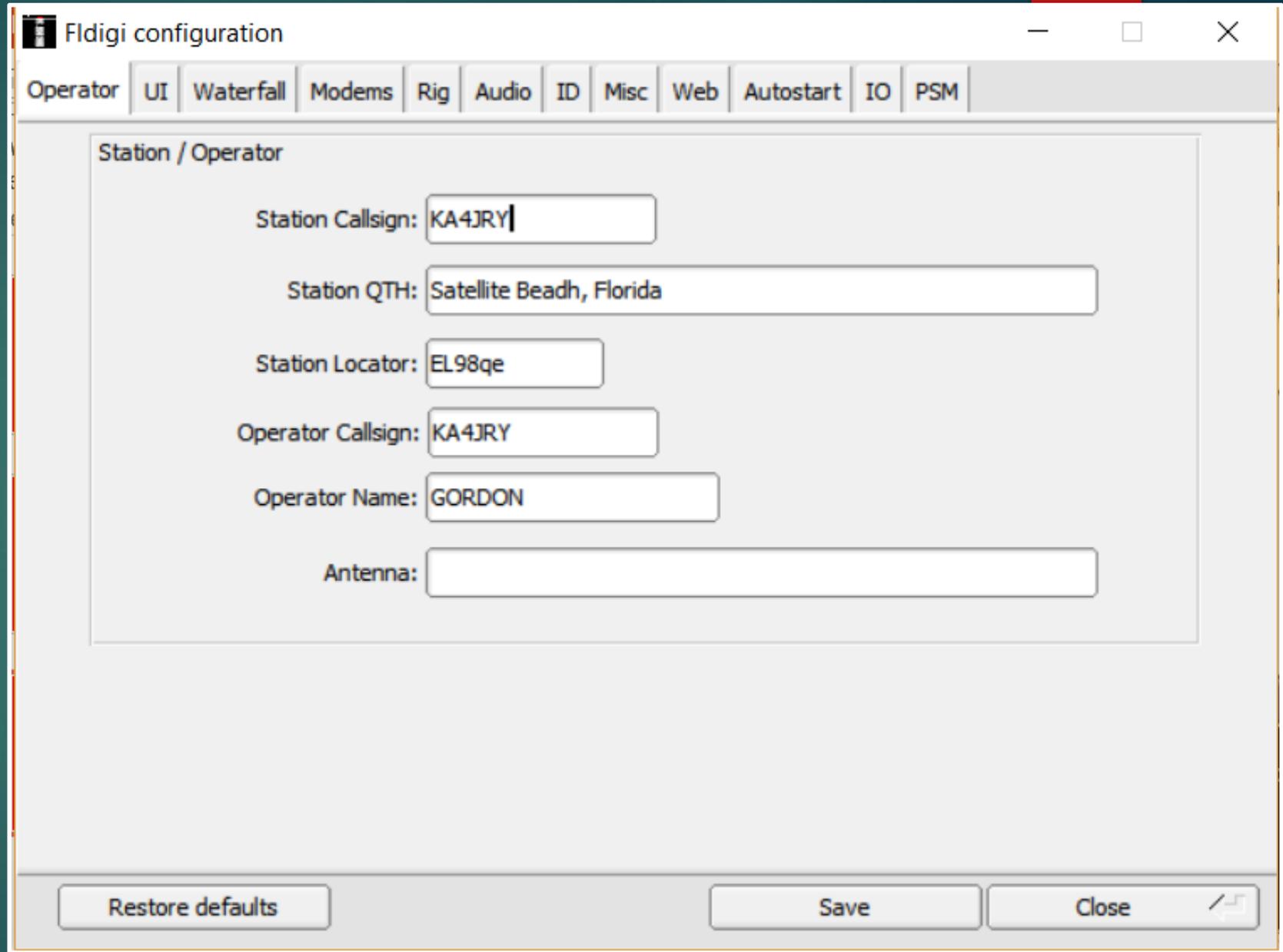
(Click **“Save”** anytime changes are made)

Fill all fields you can
(Look up location on
QRZ.com)

Click **Save**

Now click the **Modems** tab

The FLDIGI **Modems**
configuration window will
appear



The screenshot shows the 'Fldigi configuration' window with the 'Modems' tab selected. The window has a title bar with standard Windows window controls (minimize, maximize, close). Below the title bar is a tabbed interface with the following tabs: Operator, UI, Waterfall, Modems (selected), Rig, Audio, ID, Misc, Web, Autostart, IO, and PSM. The main content area is titled 'Station / Operator' and contains several text input fields:

- Station Callsign: KA4JRY
- Station QTH: Satellite Beach, Florida
- Station Locator: EL98qe
- Operator Callsign: KA4JRY
- Operator Name: GORDON
- Antenna: (empty field)

At the bottom of the window, there are three buttons: 'Restore defaults', 'Save', and 'Close'.

On the Modem configuration screen

Click the **MT63** tab

Check the first 4 selections

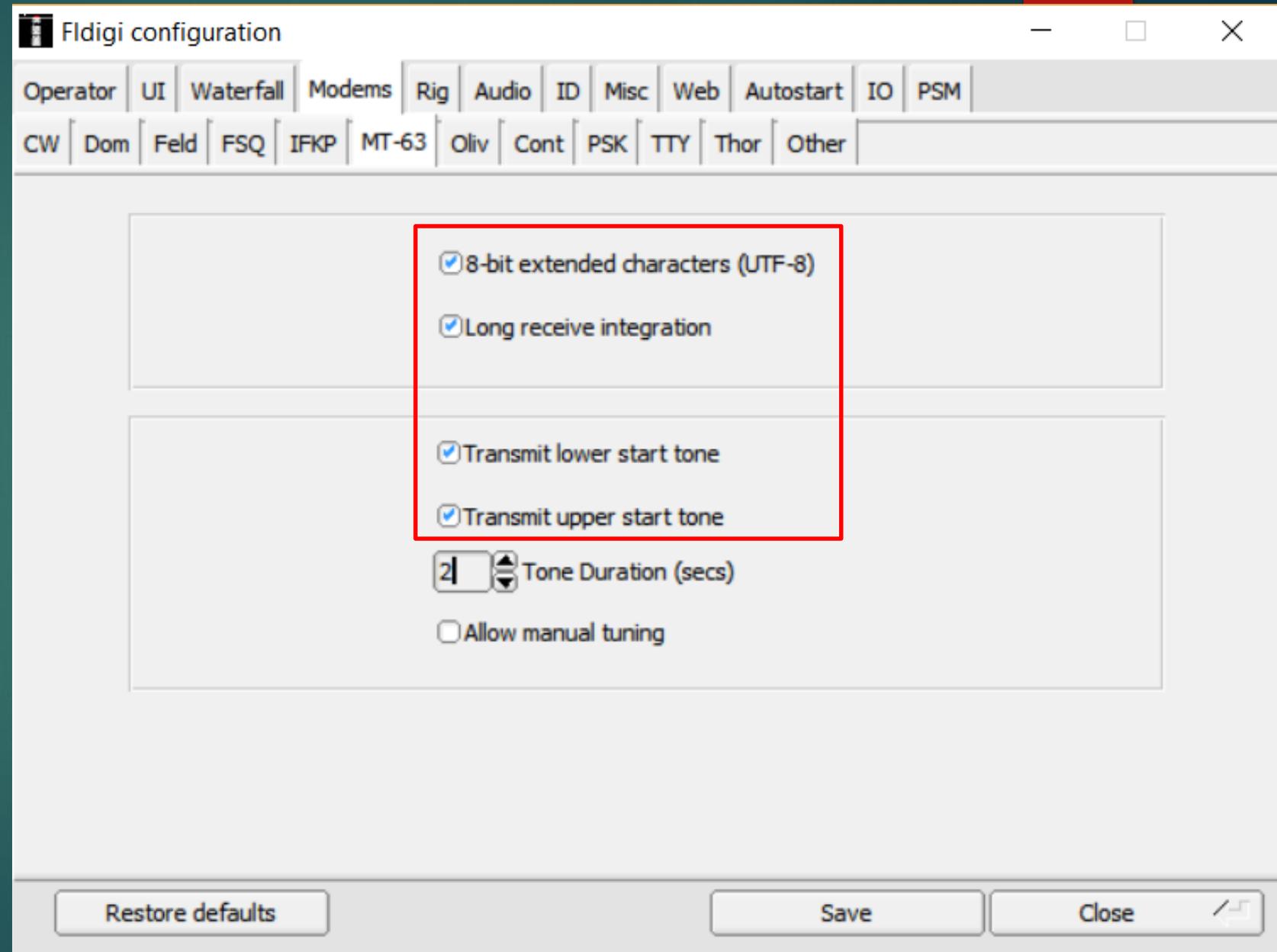
Set “**Tone Duration**” to 2 sec

Uncheck “**Allow manual tuning**”

Click **Save**

Now click the **Audio, Devices** tab

The Audio Devices configuration screen will appear



On the Audio Devices configuration screen

Make sure **Port Audio** and **Device supports full duplex** boxes are checked

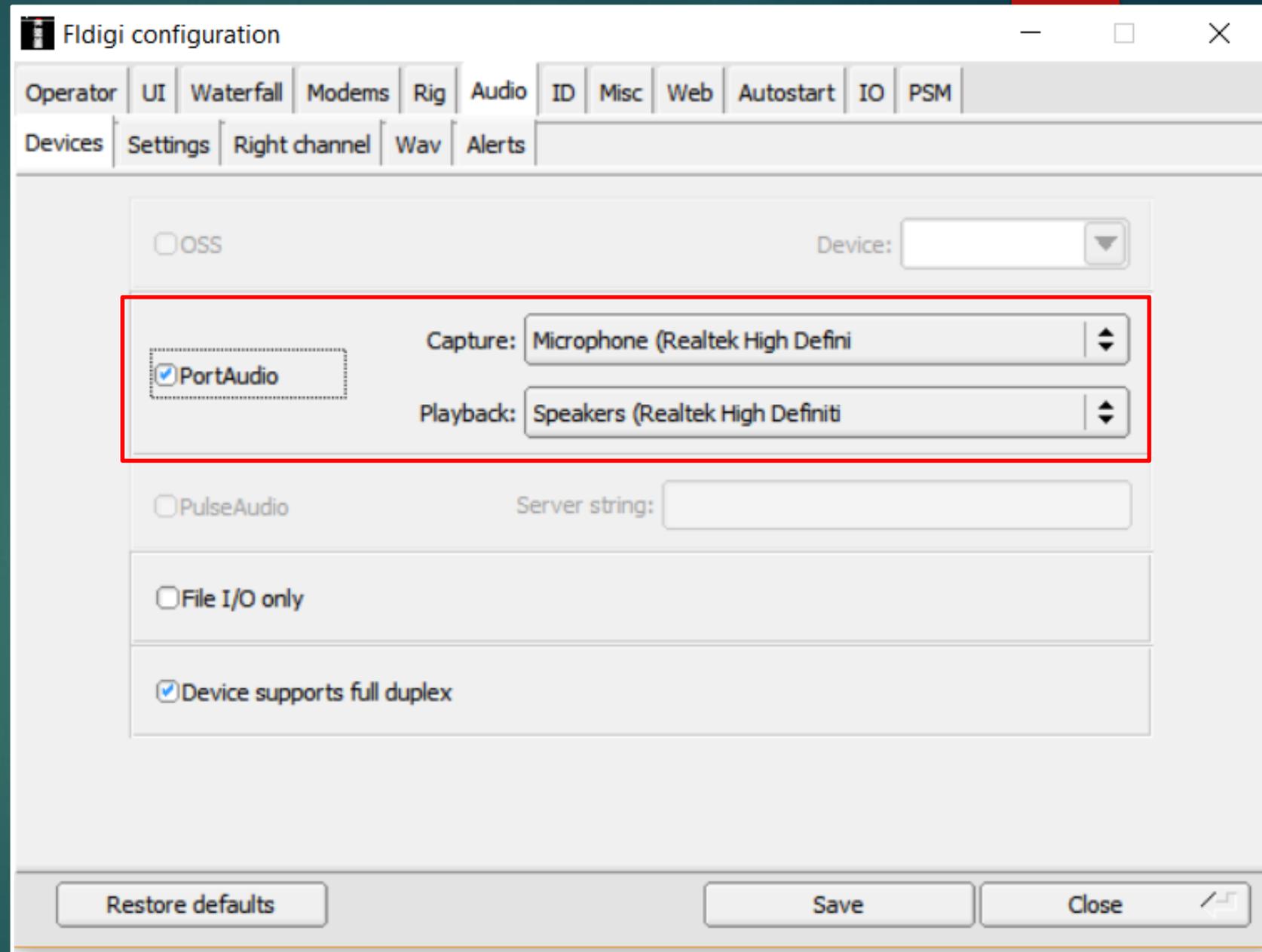
Make sure your computer's mike and speakers are selected

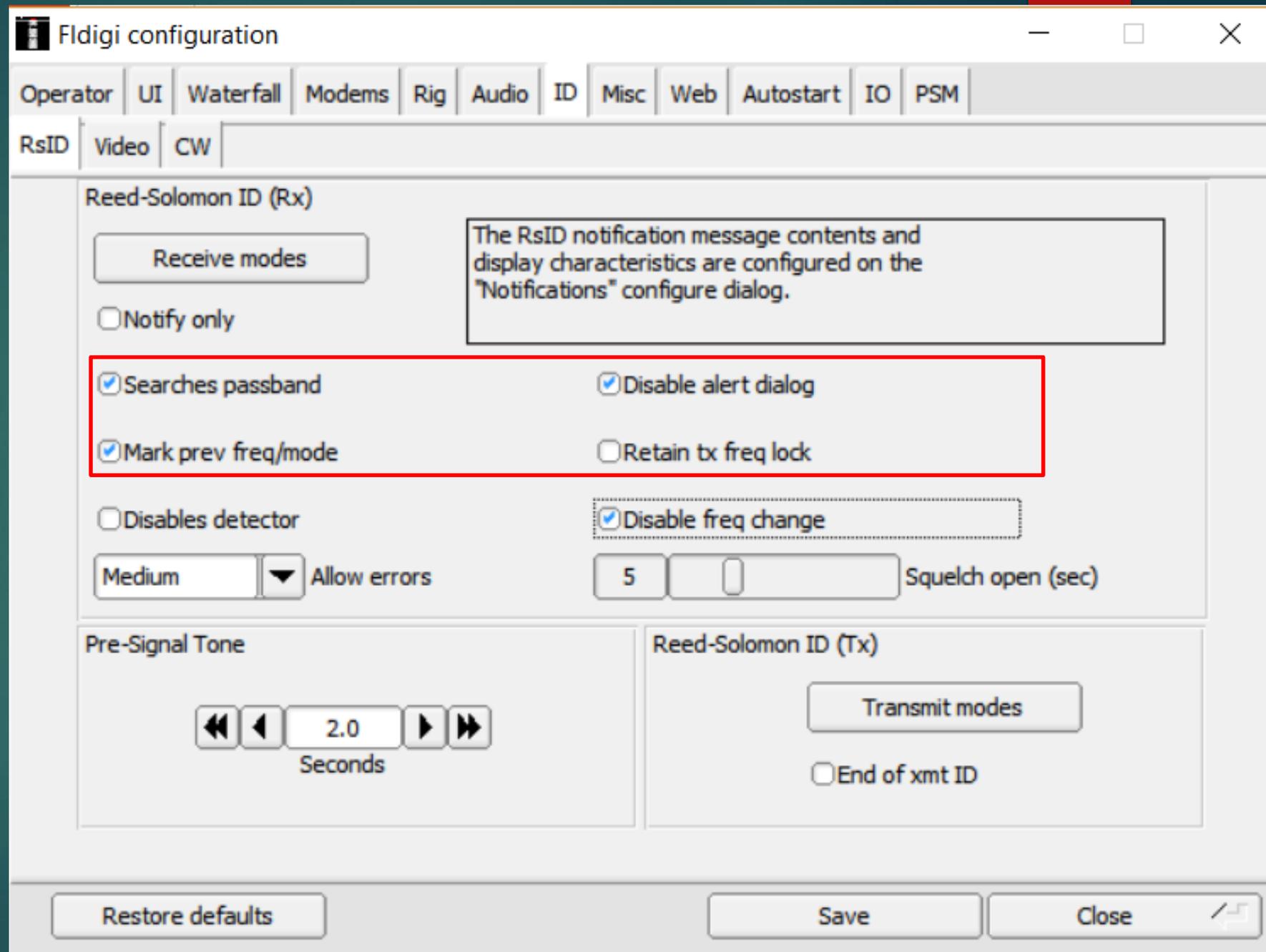
Click **Save**

NOTE: Write down the Capture and Playback devices you have selected. That info will be used in the testing and calibration procedure

Now click the ID, RsID tab

The ID, RsID configuration screen will appear





On the ID, RsID screen,

Click the check boxes as shown in the red rectangle.

Set the **Pre-Signal Tone** to 2 seconds

Click **Save**

Now click the **Waterfall, Display** tabs

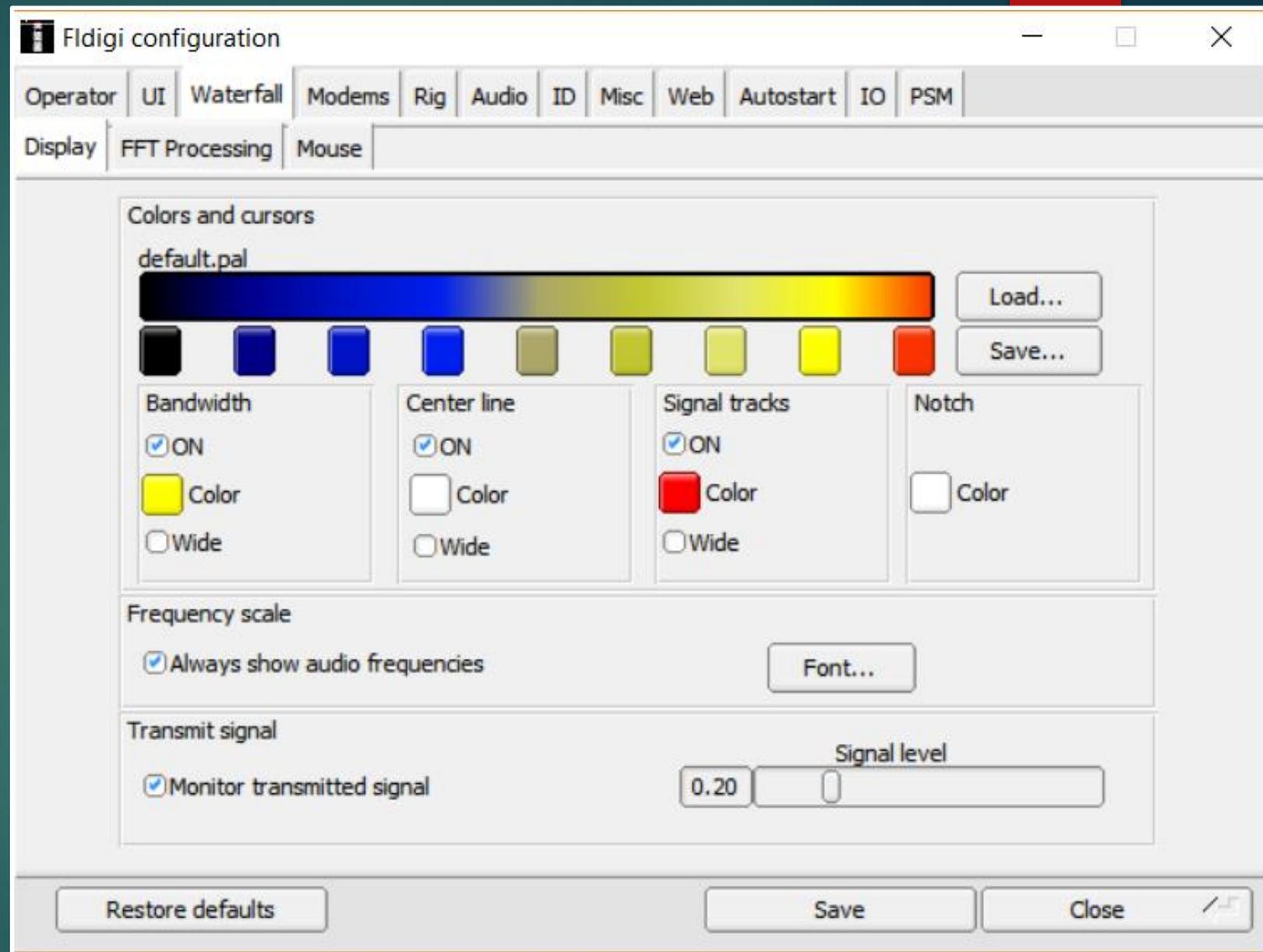
The **Waterfall, Display** configuration screen will appear

On the Waterfall screen,
Check Transmit signal
Monitor transmitted signal
box

Click **Save**

Click **Misc, NBEMS** Tab

The **NBEMS** configuration
screen will appear



== Many people have problems with the next step ==

== Double check the location the location of fldmsg.exe on you computer

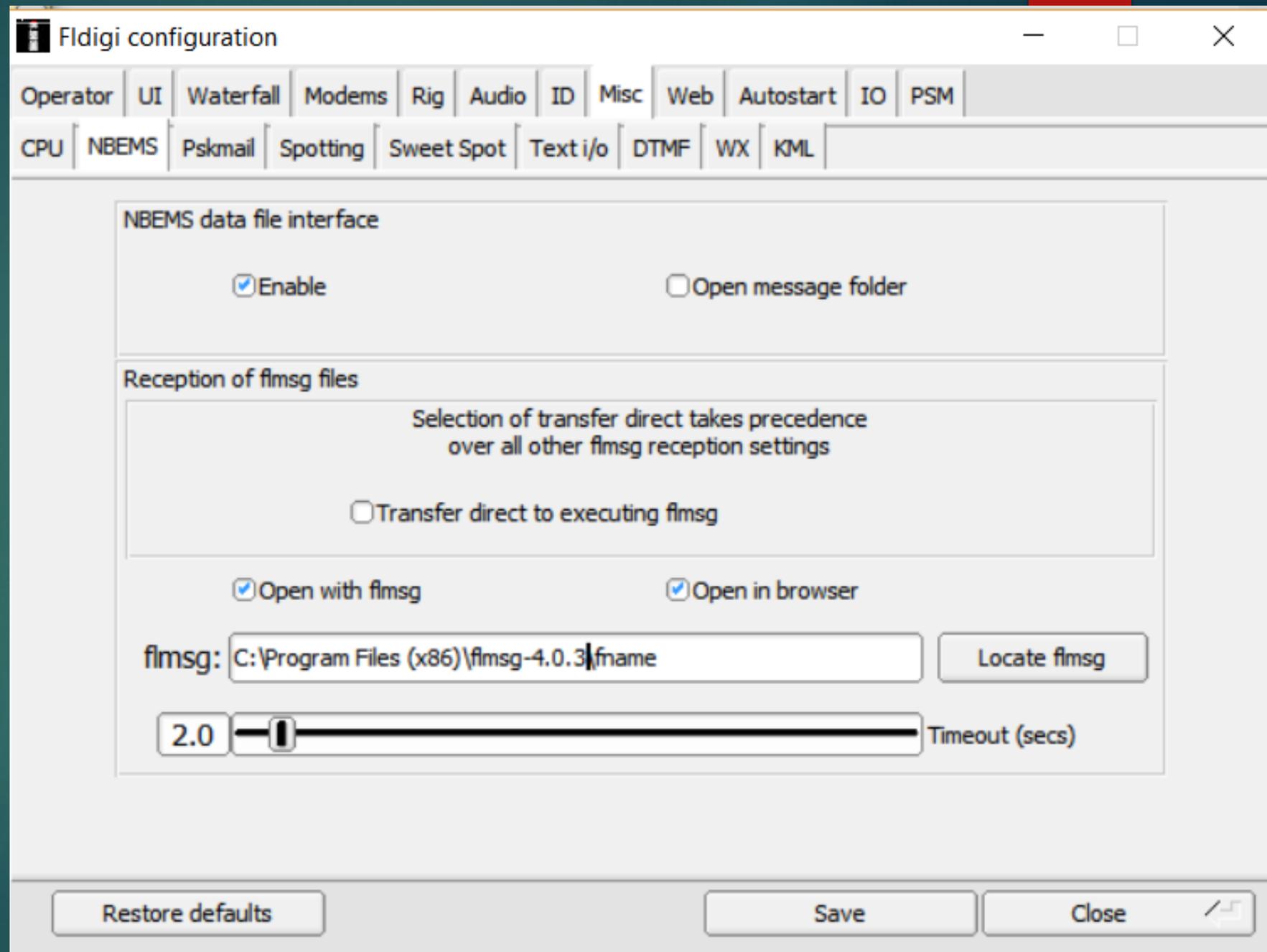
Under NBEMS data file interface, check **Enable**

Uncheck **Open message folder**

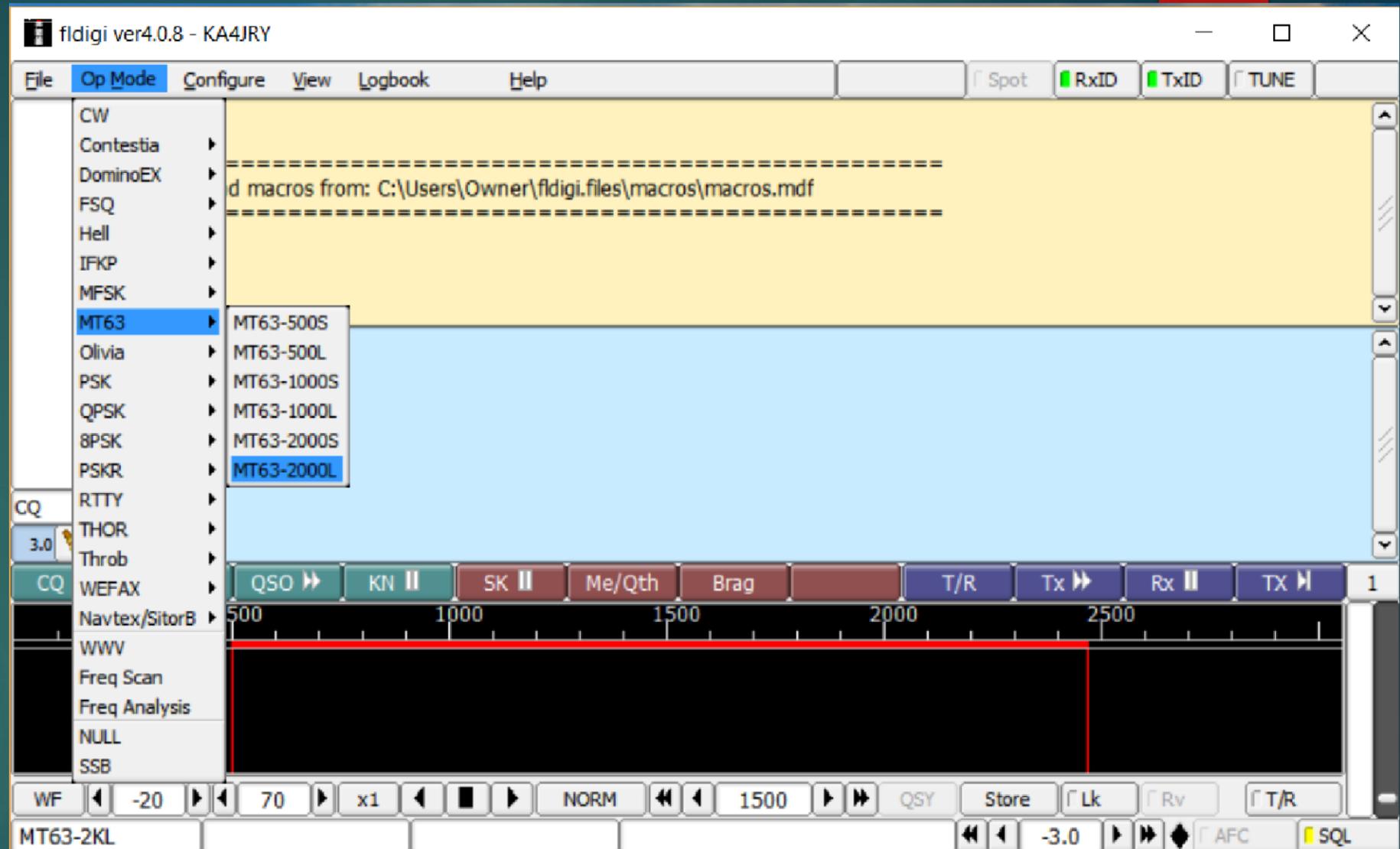
Make sure **Transfer direct to executing flmsg** is unchecked

Fill the "flmsg: box by entering the flmsg.exe location on you computer. You can also locate the file by using the "Locate flmsg button.

Click **Save**



On the FLDIGI Main screen
Click **Op Mode**, **MT63**,
MT63-2000L



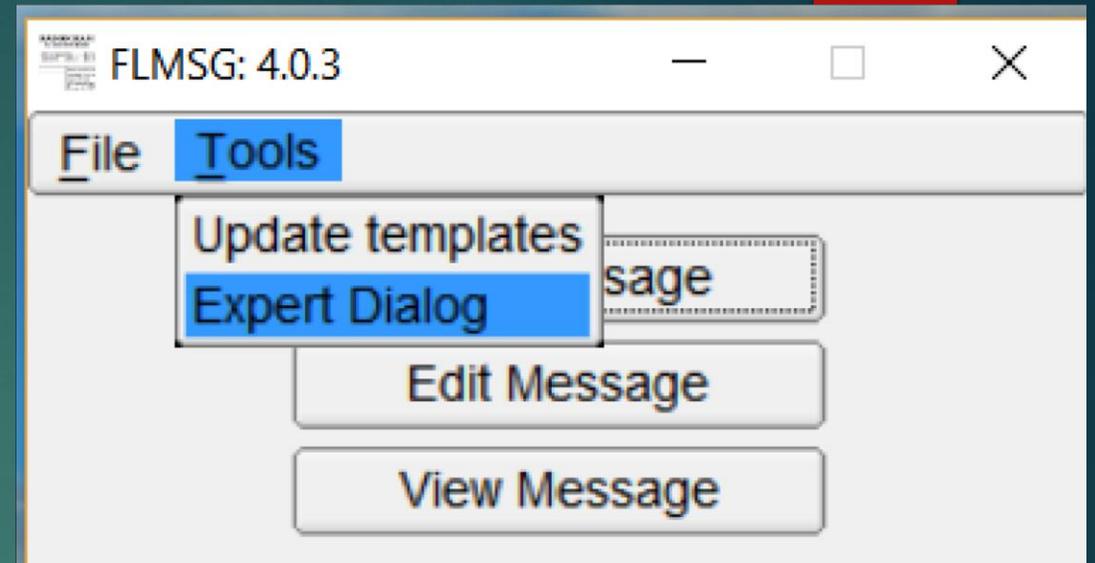
Now we can configure flmsg

Before configuring flmsg, make sure the correct file location has been entered on the “**flgmsg**”: box on the NBEMS screen
Double click the **flmsg 4.0.3 icon** on the desktop.

On the FLMSG 4.0.3 pop-up Click **Tools, Expert Dialog**

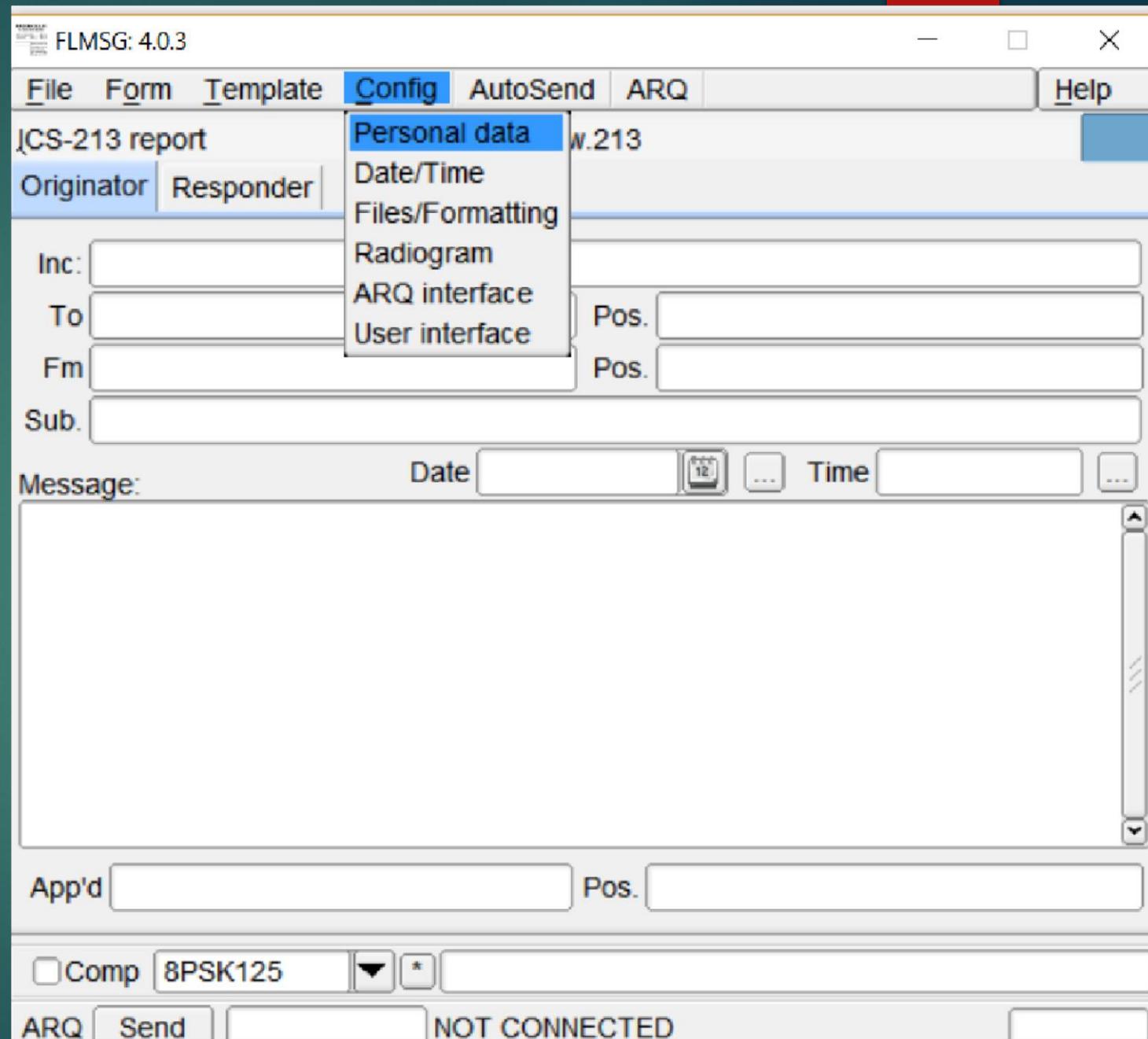
The **FLMSG: 4.0.3** configuration screen will appear

Most of the traffic using Basic NBEMS on FM will be local. For that reason, we will use local date and time to reduce confusion about dates because Zulu date is often different than the local date.



On the FLMSG configuration screen, Click **Config**, **Personal data**

The flmsg **Personal** data pop-up will appear



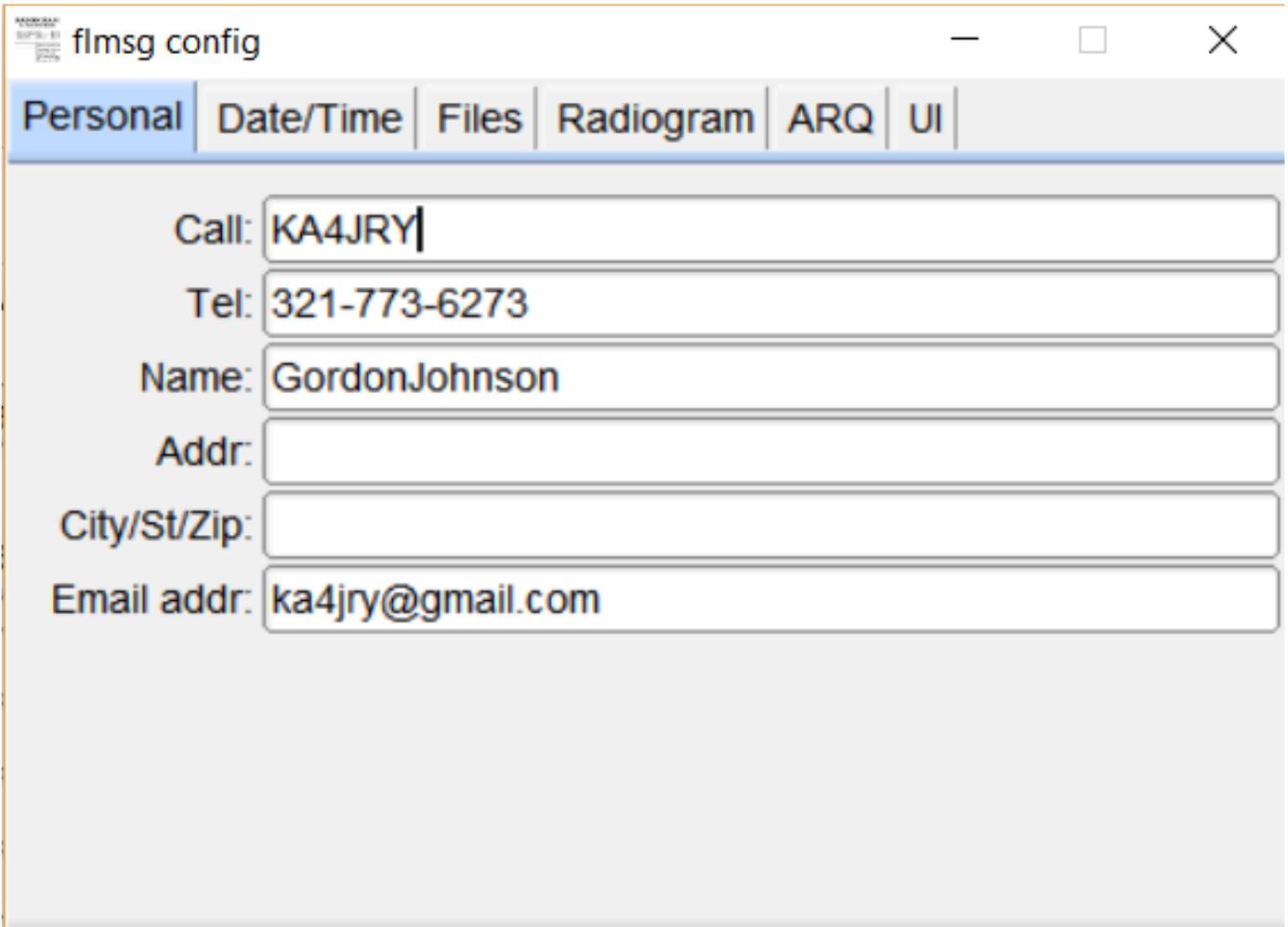
Personal data

Your call sign is required.
Depending upon your net protocol
or your assignment, you may wish
to add you “Tactical Call” such as
PCARS EOC-W4MLB.

Enter the required data

Click the **Date/Time** tab

The flmsg **Date/Time** configuration
pop-up will appear



The screenshot shows a window titled "flmsg config" with a standard Windows-style title bar (minimize, maximize, close buttons). Below the title bar is a tabbed interface with six tabs: "Personal", "Date/Time", "Files", "Radiogram", "ARQ", and "UI". The "Personal" tab is currently selected and highlighted in blue. The main content area contains several text input fields:

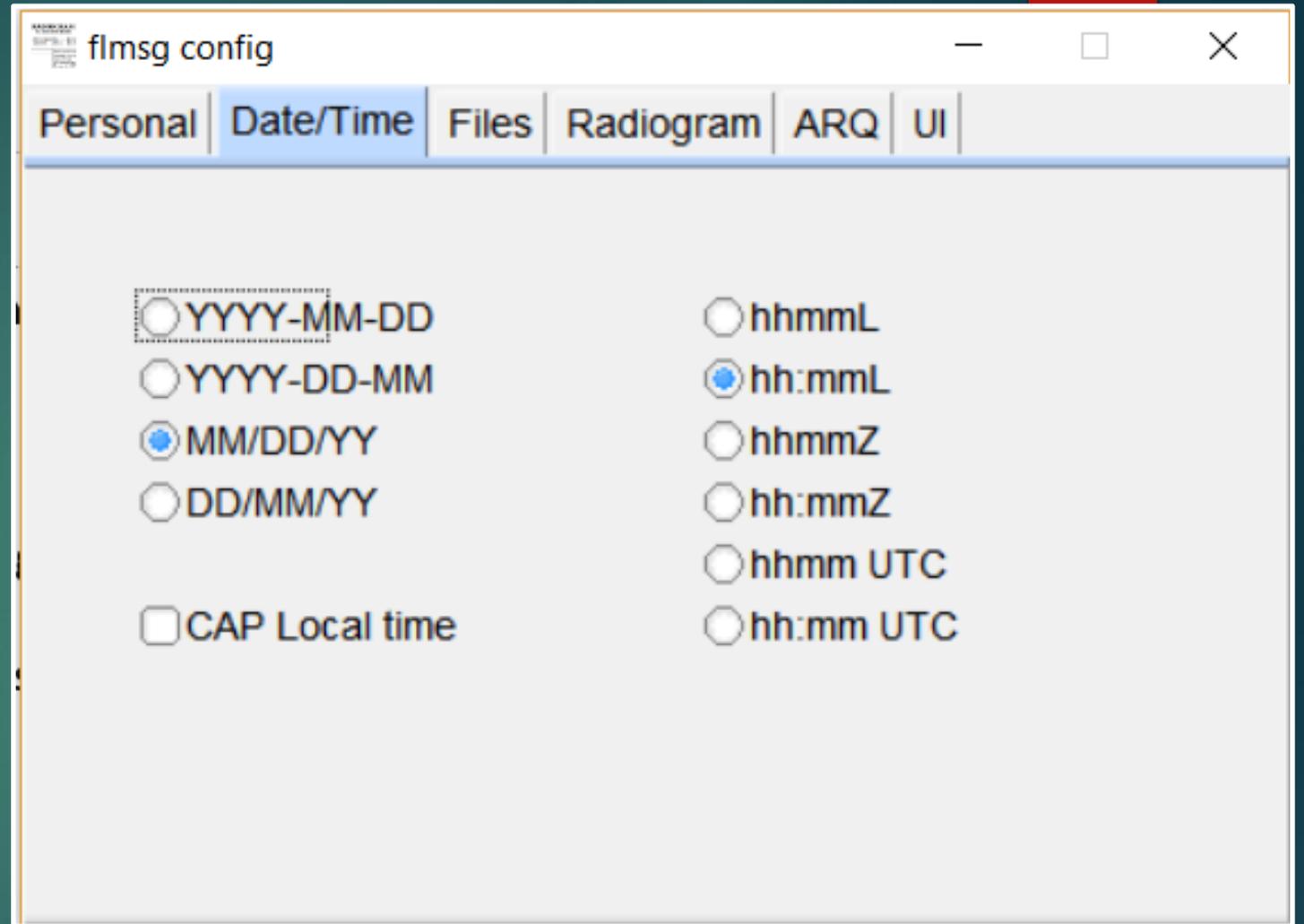
- Call: KA4JRY
- Tel: 321-773-6273
- Name: GordonJohnson
- Addr: (empty)
- City/St/Zip: (empty)
- Email addr: ka4jry@gmail.com

Date/Time

Select the Date and time format as shown. This is the most common local time and date formats

Select the **Files** tab

The flmsg Files pop-up will appear

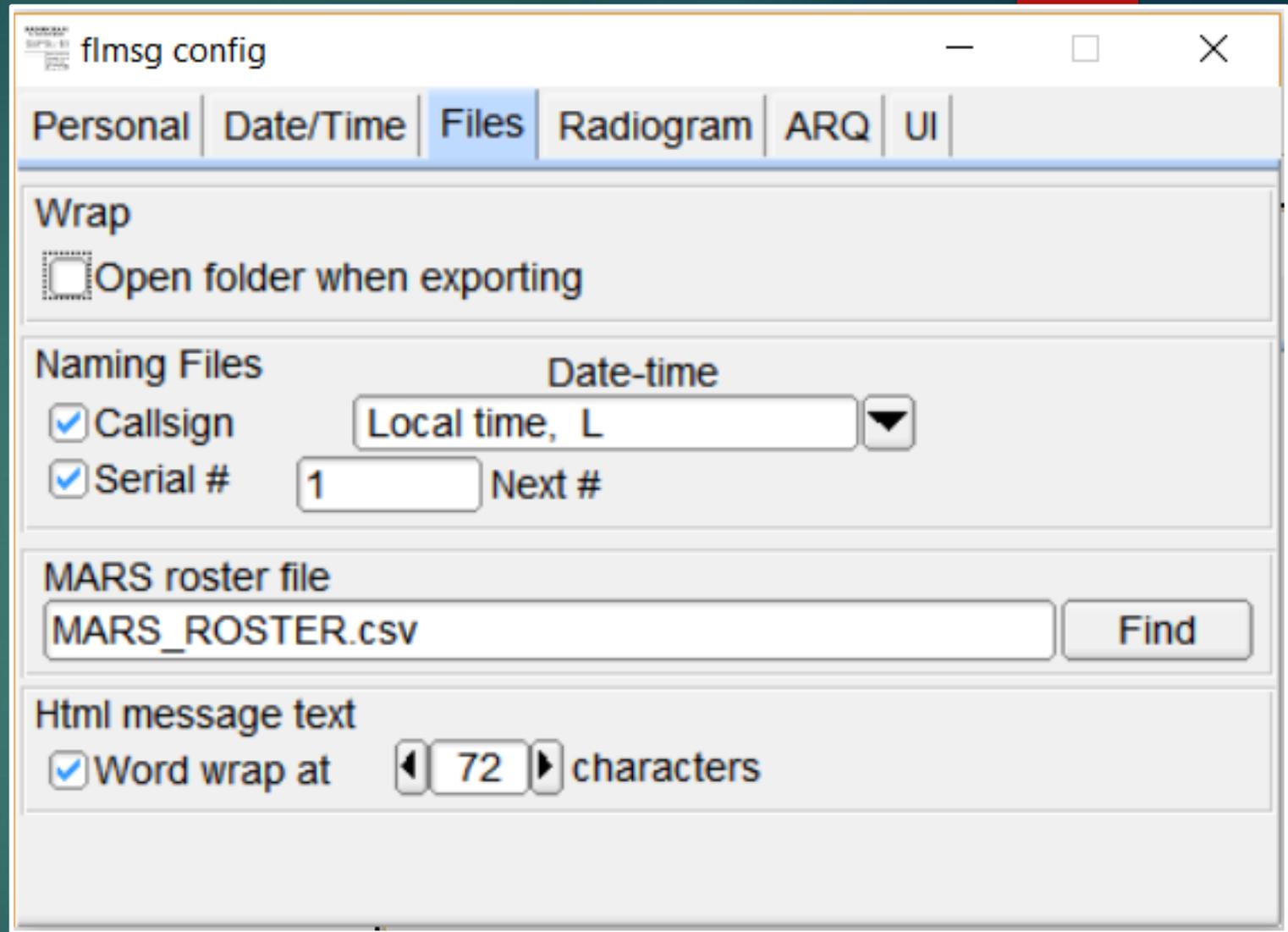


Files and Formating

Verify Files pop-up is configured as shown.

Radiogram & FLDIGI Connections:
No Changes: For now use the default selections.

Click the Close X at the upper right corner of the flmsg config screen.





CONGRATULATIONS!!!

You have completed the initial steps in setting up Basic NBEMS for FM and MT63 communications.

Now the computer and radio audio levels must be adjusted. The quickest and best way to adjust is with another NBEMS user.