

# **FLDIGI/FLMSG/FLWRAP Setup Instructions**

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**Change ONLY the settings described below. Keep all other settings as defaulted in the software.**

## **Introduction:**

Fldigi is used for sending/receiving text you type in or cut/paste into the lower text box on the screen, flmsg is used to send/receive messages on ICS forms, and flwrap is used to send files such as word documents, pictures, spreadsheets, ect. I wrote these instructions around acoustically coupling – not using a Signal Link. You will have to make adjustments to your signal link to ensure the software properly sends and receives.

## **FLDIGI Setup/Operating Instructions:**

1. Download and save to your hard drive the latest versions (according to your operating system) to setup fldigi, flmsg, and flwrap from <http://www.w1hkj.com/download.html>. Remember the location you save the files to on your hard drive. You will need it later.
2. Run the setup files for each program:
  - a. Remember the locations for the Flwrap and FLMSG programs. You will need them later.
3. Once the programs are installed open Fldigi and make the following changes.
4. Click the “RxID” and “TxID” buttons in the upper right hand corner of the screen so they are green.
5. Click the “SQL” button in the lower right corner of the screen so it is yellow.
6. From the File pull down menu:
  - a. Select the Text Capture.
  - b. Click the "Log all RX/TX Text" so it is green.
7. From Op Mode pull down menu:
  - a. Select MT63.
  - b. Select the MT63-2000 mode.
8. From the Configure pull down menu select Operator:
  - a. Select the Operator tab in the dialog box:
    - i. Enter the appropriate station information (Callsign, Name, QTH, etc.)
  - b. Select the Modems tab in the dialog box:
    - i. Select the MT-63 tab.
    - ii. Unclick the “Allow manual tuning” (last line in the dialog box.)
  - c. Select the Audio tab in the dialog box:
    - i. Select the Devices tab in the dialog box.
    - ii. Click the “PortAudio” box so it is green.
    - iii. Select the “Capture:” and “Playback:” devices according to your computer.
  - d. Select the ID tab in the dialog box:
    - i. If you want your call (from the operator tab) transmitted, at the end of your transmission, click the “Transmit Callsign” box in the CW Postamble ID section. Set the speed to 18 wpm.
    - ii. In the REED-SOLOMON ID (Rx) section unclick the "Reception disables detector" button.

- iii. In the REED-SOLOMON ID (Rx) section click the "Detector searches entire passband" button so it is green.
- e. Select the Misc tab in the dialog box:
  - i. Select the NBEMS tab in the dialog box.
  - ii. In the NBEMS datafile interface section Click the "Enable" and "Open message folder" buttons so they are green.
  - iii. In the Reception of Flmsg file section click the "Open with Flmsg" and "Open in browser" buttons so they are green.
  - iv. Ensure the box next to the "Flmsg:" has the proper path for your Flmsg.exe file location from the above installation notes.
- f. At the bottom of the dialog box click the save button and the close button.
- g. Your configuration is complete and saved.

#### **To send an fldigi message:**

1. Type the message in the lower text box.
2. Click the TX button (with the arrow/rectangle) to the RIGHT of the screen below the lower text box. Please note: If you select the TX button with 2 arrows your computer will continuously transmit. To stop continuously transmitting click the TX button on the Right of your screen (with the arrow/rectangle.) You will notice the computer will re-transmit your message, your id, and stop transmitting when finished.

#### **To Receive an fldigi message:**

If properly setup your computer will receive the text message in the upper text box on your screen. If the message is not readable you may have to adjust your sound card settings, ensure the SQL button in the lower right portion of the screen is checked yellow, and adjust the squelch bar next to the SQL button.

#### **FLMSG Setup/Operating Instructions:**

Flmsg is used to send/receive messages on ICS forms.

1. Select the Config pull down menu.
2. Populate the dialog box with the appropriate information.

#### **Sending an ICS form with flmsg:**

1. Call up the flmsg software
2. Select the proper form using the tabs across the top of the dialog box. This example uses ICS-213.
3. Click the Originator tab.
4. Populate the ICS-213 form accordingly.
5. From the File pull down menu select Wrap > AutoSend.
6. A file dialog box comes up asking you to save the form to your hard drive.
7. Once you save your form it will be sent automatically.

#### **Receiving an ICS form with flmsg:**

If set up properly your computer will save the ICS form to your hard drive and open it.

1. Once you receive a form your computer should:
  - a. Open your internet browser allowing you to print the form
  - b. Open a file dialog box showing the file name with the most current date/time stamp
  - c. Open the form in a ICS-213 box properly formatted
2. If your computer does not automatically open the ICS form go to the Configure pull down menu > Misc tab > NBEMS tab > and verify:
  - i. In the NBEMS datafile interface section Click the “Enable” and “Open message folder” buttons so they are green.
  - ii. In the Reception of Flmsg file section click the “Open with Flmsg” and “Open in browser” buttons so they are green.
  - iii. Ensure the box next to the “Flmsg:” has the proper path for your Flmsg.exe file location from the above installation notes.

**To reply to an ICS form with flmsg:**

1. Open the appropriate form if not already open and click on the Responder tab just above the To field.
2. Populate the form appropriately.
3. From the File pull down menu select Wrap > AutoSend.
4. A file dialog box comes up asking you to save the form to your hard drive.
5. Once you save your form it will be sent automatically.

**FLWRAP Setup/Operating Instructions:**

Coming soon.

**Misc Setup & Computer Notes:**

1. You may have to adjust the microphone/speaker levels of your sound card if you get junk text. We found the levels of 50% for both seem to work the best
2. There are 2 ways to couple your computer with your radio. You can purchase a Signal Link (<http://www.tigertronics.com/slusbmain.htm>) which directly connects your computer to your radio (~\$100.00) or you can use acoustic coupling (free)
3. If you get random characters on the screen for no reason at all make sure the SQL button in the lower right corner of the screen is yellow and adjust your squelch to approx 50%.
4. If you have a recording device, such as a smart phone, you can use it to send and receive data to/from your computer to practice.
5. Placing a “^R” after the text you are sending will automatically place the computer in receive mode after your transmission.
6. When you are going to transmit large blocks of text cut/paste from notepad – not Word. Word has too many hidden characters that may disrupt your transmission.
7. Put a shortcut on your desktop that points to the folder on your hard drive where the ICS forms are saved.