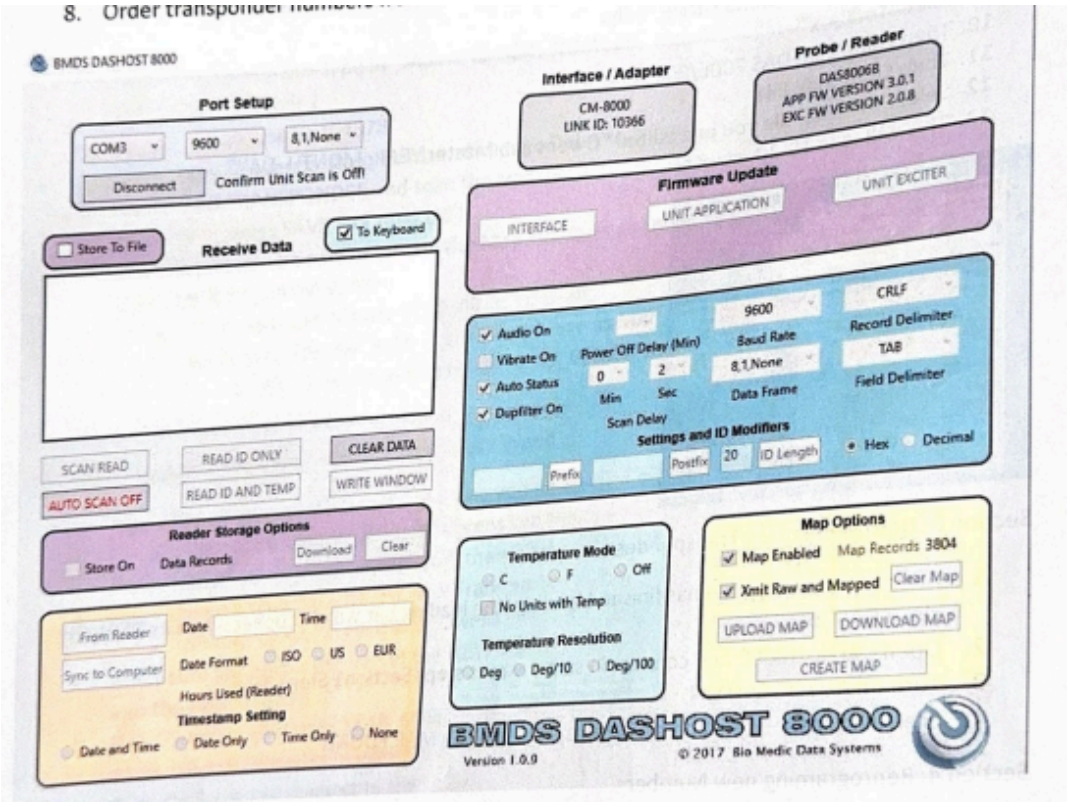
Transponder Reprogramming – Full Protocol

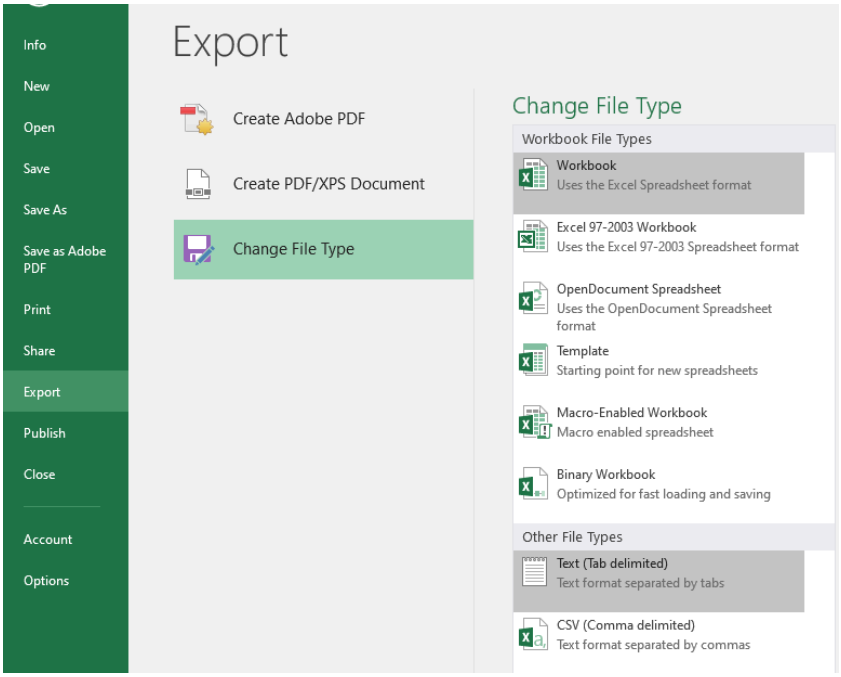
Section 1: Scan old transponders

1. Open DasHost8000 (new program)
2. Make sure transponder wand is on and connected
    a. If gray wand: should be propped up in wand stand, gray cord plugged into orange side port “SERIAL”
    b. If other wand: gray cord plugged into port at the bottom of the wand
3. Drop down menu of “Port Setup” select “COM3” and press “Connect”
    a. Wand should beep when connected
4. In “Receive Data”, select the “To Keyboard” checkbox
5. In “Map Options”, select the “Map Enabled” and “Xmit Raw and Mapped” checkboxes
    a. If the “Xmit Raw and Mapped” checkbox is gray, select the “AUTO SCAN ON” button under “Receive Data”, and turn it off. This should allow the “Xmit Raw and Mapped” button to work.
6. Press “AUTO SCAN ON” (again)
7. Open File Explorer >>> Transponders >>> deleted Transponders >>> 2025 deleted transponders >>> New Excel File
    a. Name the new file: yyyy-mm-dd-deleted Transponders
        i. Ex: 2024-04-07-deleted Transponders
8. Select the first cell of the excel sheet and begin scanning transponders
    a. Make sure the “To Keyboard” box is checked!!!!



Section 2: Deleting transponders from MAP file

1. In the deleted YYY_MM_DD excel spreadsheet, save the file as a .txt file
    a. File >>> Export >>> Change File Type >>> Text (Tab delimited)



        i. The Excel application may warn you about changing the file type… Just click “Yes”/”Change file type”
2. Close the Excel application
    a. It may ask if you’d like to save changes made to the file
        i. Click “No”
3. Open the PyCharm 2024.1.2 application
    a. Open the Owens_Lab Project folder
    b. Open Owens_Lab_Transponders.py
4. Open the File Explorer application
    a. Click and drag the deleted transponder txt file into the Owens_Lab folder in PyCharm (should be the file you wish to delete transponders from)
        i. Alternatively: Copy (Ctrl+C) the file >>> Hover over the Owens_Lab folder in PyCharm >>> Paste (Ctrl+V)
    b. Refactor
    c. Copy (Ctrl+C) the most recent master transponder MAP file from File Explorer
        i. Hover over the Owens_Lab folder in PyCharm & Paste (Ctrl+V)

5. At the top of the Owens_Lab_Transponders.py program, insert the exact names of the files into the variables **master** and **deleted** (make sure to keep the name between the quotation marks!)

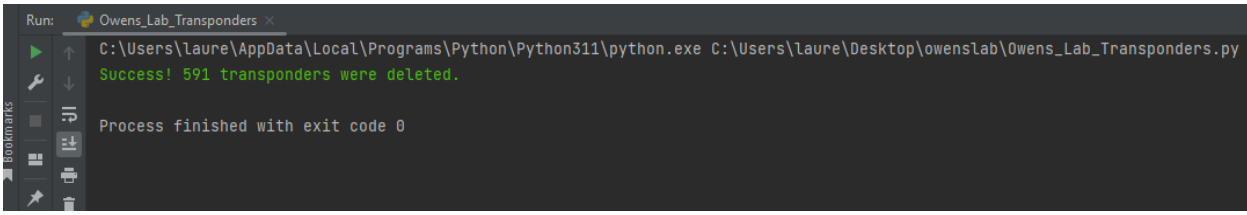
a. Example:

```
# Put the name of the existing/most recent master MAP file and deleted file
master = "Owens Lab Master 2024_05_07.MAP"
deleted = "2024-05-28-deleted Transponders.txt"
```

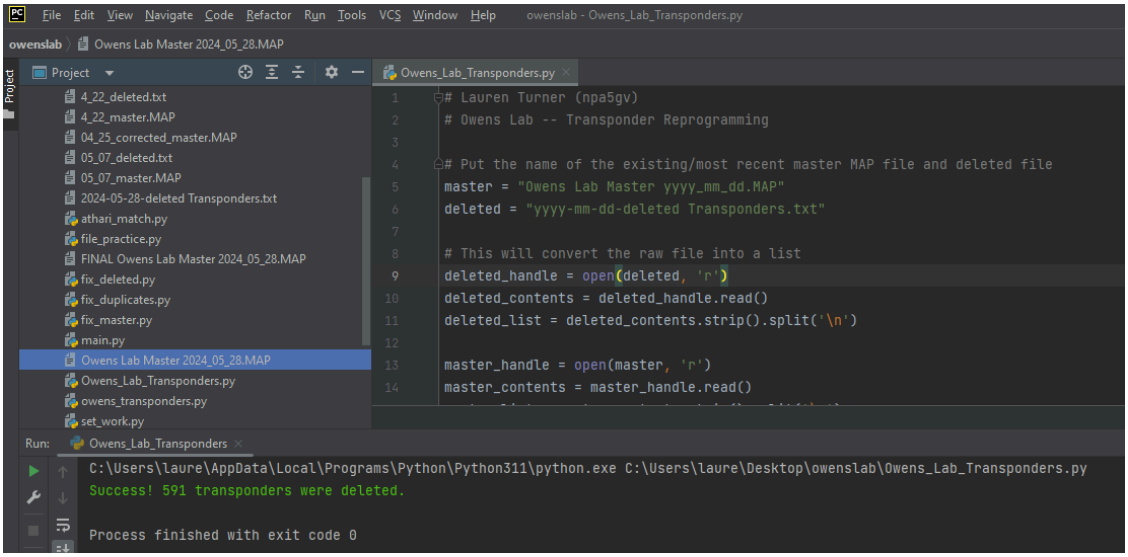
6. Insert the desired **new** master MAP file name into the **final_master** variable
   a. Example:

```
# Input the name of the new master file with all transponders deleted
#   Example: 'Owens Lab Master 2024_05_23.MAP'
final_master = 'Owens Lab Master 2024_05_28.MAP'
```

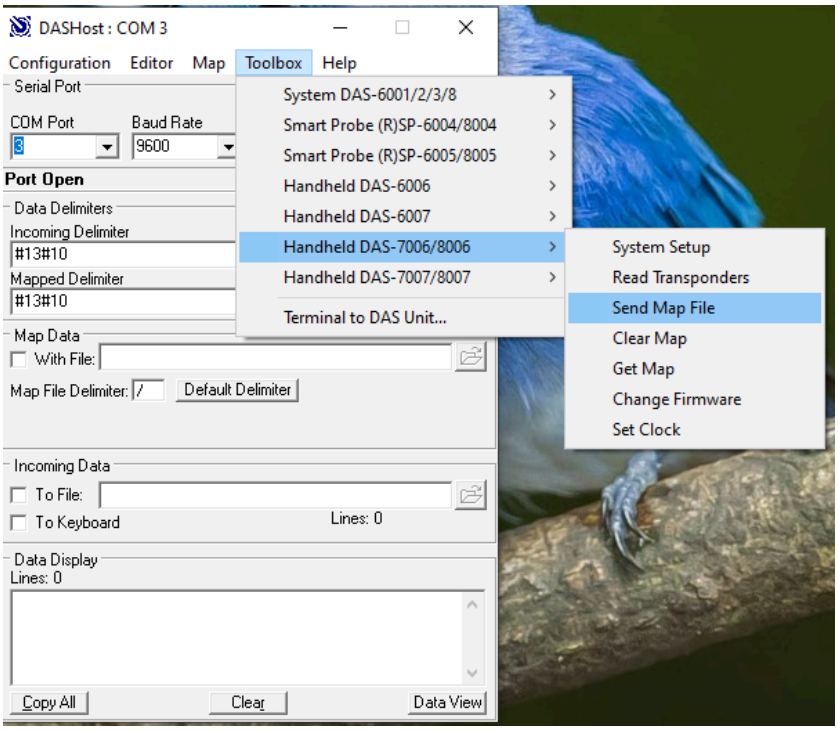
7. Run the code by pressing the green triangle at the top of the program (or Shift+F10)
   a. If the code ran successfully, you should see this at the bottom of the screen



   b. If the code did not run successfully, you will receive an error message
      i. If the error continues, ensure that both file names are typed in correctly
8. The new master MAP file will appear on the side panel of PyCharm



   a. Click and drag the file into the 2025 Transponder Master Map folder
      i. Alternative: Click on the file >>> Copy (Ctrl+C) >>> File Explorer >>> 2025 Transponder Master Map folder >>> Paste (Ctrl+V)
9. Update the wand with new master MAP
   a. Open the older version of DASHost

b. 

c. Select COM Port 3. When it says Port Open, it is connected to the.

d. Click Toolbox >>> Handheld DAS-7006/8006 >>> Send Map File

   i. Select the final Map file that was produced by the code "Owens Lab Master yyyy_mm_dd.MAP"

   ii. Send Map File

Section 3: Double checking transponders

1. After the updated map file has loaded to the new wand, open DasHost8000 (new program)
   a. Connect to the wand (see *Section 1* Step 3)
   b. Click "AUTO SCAN ON"
2. Scan all transponders
   a. Make sure all transponders say "NO MAP FOUND"
      i. If any still have a Mouse ID ######, place them in a separate container to be deleted in the next batch of transponders.

Section 4: Reprogramming new numbers

1. Place the transponders into green needles and secure with yellow plungers
   a. Put all stuffed needles into an empty box
2. Open the most recent Master Map file (Owens Lab Master yyyy_mm_dd.MAP) and find the last number
   a. If the recent Map file ends on Mouse ID 123477, start your tray with 123478
3. In DasHost8000 in the Map Options menu select CREATE MAP

   a. In the gray box under “NEXT MAP CODE” type in “Mouse ID ######” (ie: Mouse ID 123478)
   b. Select Auto Read, Delay 1 Sec, Auto Sequence
4. Press READ TRANSPONDER
   a. Scan each needle and place it into a labelled tray
      i. Label each tray as you fill them 1, 2, 3, 4,... etc.
      ii. Write the first Mouse ID number of each tray
   b. If you cannot fill a whole tray (<25 needles) set the remaining needles aside for the next batch
5. Once done, press SAVE FILE AND EXIT
   a. Save the new map file as Owens Lab Master yyyy_mm_ddNEW NO.MAP
   b. Exit out of DasHost8000

Section 5: Updating Wand with New Map File

1. Open the 2nd most recent Map file (should be the file that was created from the code, Owens Lab Master yyyy_mm_dd.MAP)
   a. Select the entire file (Ctrl+A) then copy (Ctrl+C)
2. Open the most recent map file that was just created (Owens Lab Master yyyy_mm_ddNEW NO.MAP)
   a. At the **top** of the NEW NO file, paste the older master map (Ctrl+V)
   b. This should now have all of the existing transponders in it, including the ones that were just reprogrammed
3. Open DasHost (older version) and connect to the wand
   a. Follow *Section 2* Step 9 to send the Owens Lab Master yyyy_mm_ddNEW NO.MAP file to the wand