How To modify whole channel lists of a modified PRM8060 or PRM8070 transmitter

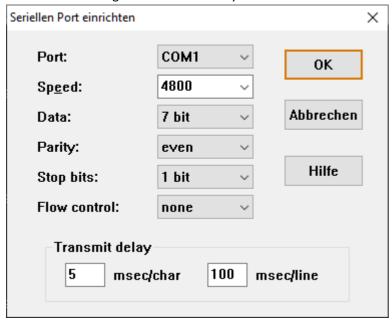
Please ensure, that you have installed the firmware (V5.0 or higher) from https://sourceforge.net/projects/prm80/files/prm80%20firmware/

Connect radio to PC via serial interface or USB 2 serial adapter. More information in regard to hardware connection see: https://github.com/f4fez/prm80/tree/master/doc

Start terminal software at PC, e.g. "Tera-Term".

Tera Term Port configuration:

Ensure that settings are done correctly:



Port: your serial interface (or USB2Serial) connected to PRM80xx

Speed: 4800 baud

Data: 7 Bit
Parity: even
Flow control: none

Transmit delay:5ms/char, 100msec/line

to adjust this values is very important, else you will not be able to send a higher amount of data to the PRM80 (e.g. channel list). If you still get in trouble with numbers above increase the numbers and re-test

Tera Term Terminal Configuration:



Ensure that "new line" is configured to "Carriage Retur" (CR) . Disable Local Echo

To start the communication to the PRM80xx it may be necessary to Reset the Terminal Control -> Reset Terminal

If you can see following screen, after entering a "H", the communication from PC to PRM80xx is running well:

```
COM1 - Tera Term VT
                                                                                                ×
                                                                                         Datei Bearbeiten Einstellungen Steuerung Fenster Hilfe
Commandes disponibles :
    = Reset.
    a [5] = Show 80c552 port state P1 to P5.
    = Print channels list.
    = Set system byte.
    = Show system state (Mode-Chan-Chanstate-Sql-Vol-Lock-RX freq-TX freq).
    = Set squelch.
    = Print this help page.
    = Erase and init RAM and EEPROM.
    = Set lock byte.
    = Print latch state.
    = Edit external RAM manualy.
    = Set current channel.
    = Set volume.
    = Edit/Add channel.
    = Set channels number.
    = Set synthetiser frequencies.
    = Print 80c552 internal RAM.
    = Copy EEPROM to external RAM.
    = Set current channel state.
    = Print firmware version.
    = Copy external RAM to EEPROM.
    = Print first 2 kb from the EEPROM I2C 24c16.
    = Print external RAM ($0000 to $07FF).
```

Read the channel list from PRM80xx:

Press "C"

Copy the received data to a text file, e.g. input.txt:

Channel Frequency Shift State

00 894E 0260 01

01 8952 0260 01

02 8973 02F0 01

03 8946 0260 01

04 8952 0260 01

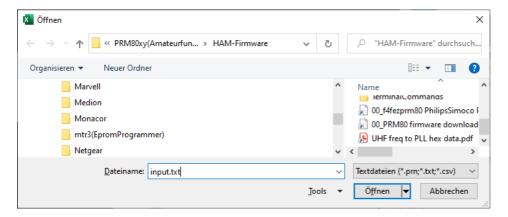
05 866C 0000 00

06 866E 0000 01

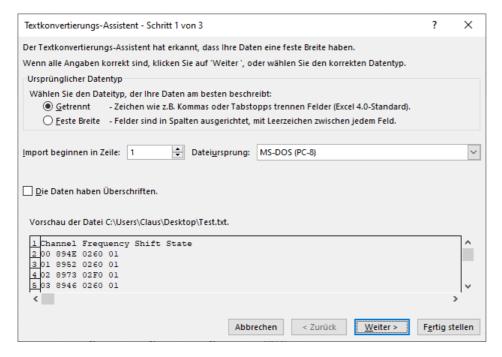
...

Now start Excel and:

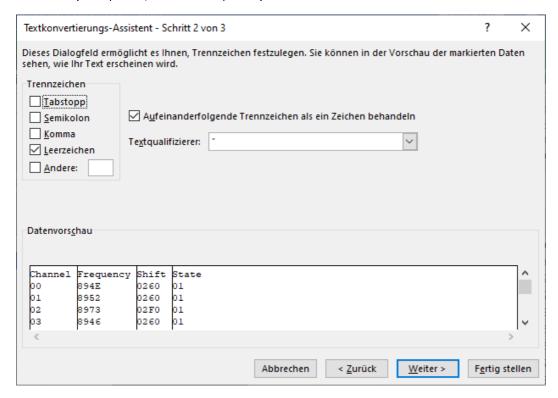
File -> open -> search -> Text Files (*.prn;*.txt;*.csv) -> input.txt



-> Select separated

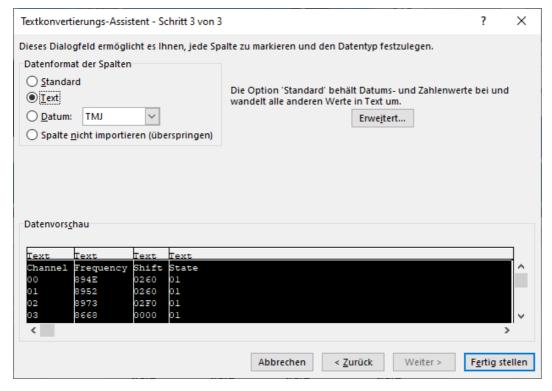


-> select Space (Blank/Leerzeichen) as separator



-> next

-> mark all columns and select Text

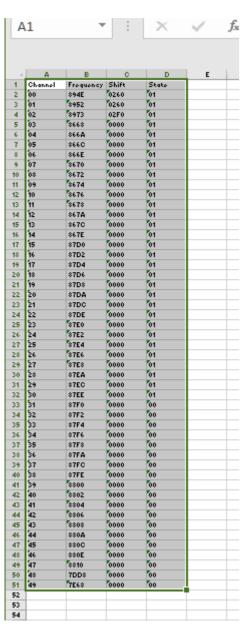


-> finish

If your Excel Sheet looks like:

4	Α	В	С	D
1	Channel	Frequency	Shift	State
2	00	894E	0260	01
3	01	8952	0260	01
4	02	8973	02F0	01
5	03	8668	0000	01
6	04	866A	0000	01
7	05	866C	0000	01
8	06	866E	0000	01
9	07	8670	0000	01
10	08	8672	0000	01
11	09	8674	0000	01

The first import step is done correctly



<- Now select all data and copy</p>

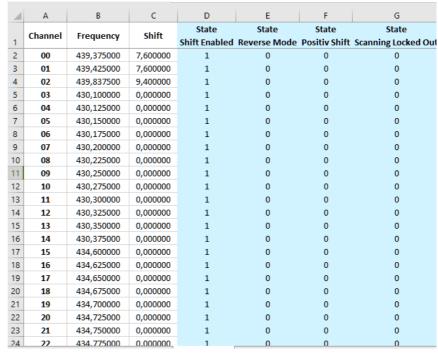
Open file "ChannelListFromToPRM.xlsx"

- -> goto TAB "Input(RAW)"
- -> select field A1
- -> and paste the data via "paste content -> values only"

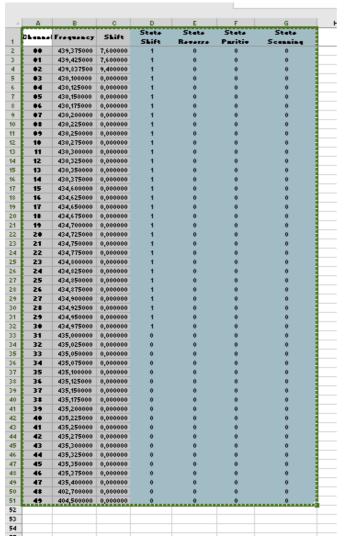
Now go to TAB "Freq(Input)"

Here you can find all data received from PRM80.

Don't change any values inside this TAB!!



Again: mark all values and copy:



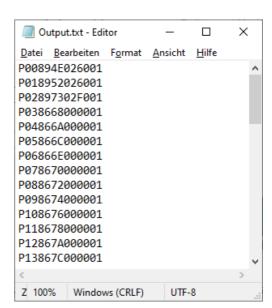
-> goto Sheet Freq(Edit) -> Mark field A1 -> and again paste contents (values only)

Now you can modify frequencies, State bits... as needed. If you are finished, goto TAB "Output" and save this sheet (only) as text document: File -> Save as -> select folder -> formatted text (blank separated) -> Output.txt

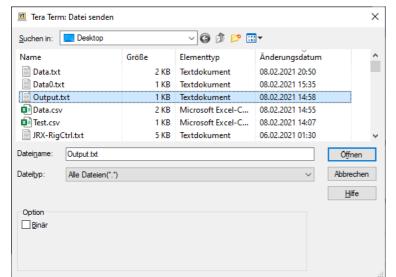
If you open this file with a text editor,

the result should look like the screen shot on the right ->

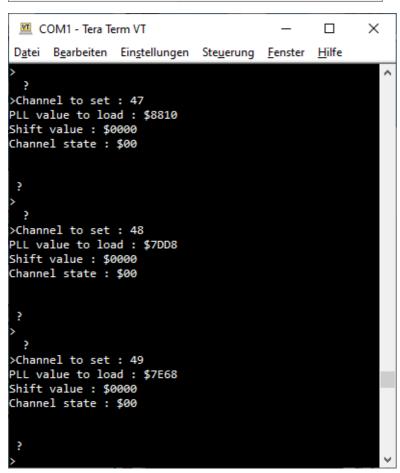
If not, you can not send the data to the PRM80xx, instead you have to look what went wrong



If the result was fine you can send the new config Data to the PRM80xx via Tera Term (or similar software):



File -> Send data -> Output.txt -> open



Now you should see that all channel are send to the PRM. Double check that no data are missing!

If you want have the data stored to the EEPROM, Press the "X" button after all data have been sent. Now you are done with

- Download channel list from PRM80xx
- Modify channel list
- Upload channel list to PRM80xx

This workaround is available as long as no other configuration software is written/available for this radio.