

Anytone Codeplug Builder

Using the ACB tool to create import files for the Anytone series of radio's using system generated input files. This will create a set of CSV files suitable for importing into the Anytone CPS program and loading into the radio's.

Ver. 0.3 by Steve, N9VW

The Anytone Codeplug Builder starting page is at:

<https://pnwdigital.net/acb>

The available files are:

- Sample codeplugs
- Analog sample file
- Digital-Others sample file
- Digital-Repeaters daily file
- Talkgroups daily file
- ZIP file of the above 4 files

Download the files that you desire. Once you have built your own Analog and Digital-Others files then you will only need the two daily files for later runs of the tool. If the Digital-Others file contains extra Talkgroups these must be entered into the Talkgroups.csv file.

K7ABD/anytone-config-builder

A tool to build CSV files that you can import into the Anytone CPS software to build codeplugs

PNWDigital has always referred to ACB as the Anytone Codeplug Builder. It is more than that but we use it for building the Anytone codeplugs. Our thanks to Andrew for his long time support to keep ACB updated and supporting changes by Anytone's files structure.

This page will help you understand how to use PNWDigital's ACB Input Files to create CSV Output and Import Files for use in Anytone Codeplugs.

Overview

The ACB input files needed for PNWDigital are located below and are updated each night.

578-CPS-v1.13-FW-v1.13-Mode14-PNWD-Starter-210421.rdt	02-03-22 13:54	3.1MB
878-PNW-Community-v1.23or_m14-Starter-210421.rdt	02-03-22 13:54	3.1MB
Analog_PNW-Community-200301.csv	02-03-22 13:54	3.4KB
Digital-Others_PNW-Community-200926.csv	02-03-22 13:54	1.2KB
Digital-Repeaters_PNW-all-2023-04-15.csv	04-15-23 02:15	11.0KB
PNW_Digital_Repeaters.zip	04-15-23 02:15	4.8KB
Talkgroups_PNW-all-2023-04-15.csv	04-15-23 02:15	773B

Search the Site

Help

Calendar

April 2023

S M T W T F S

26 27 28 29 30 31 1

2 3 4 5 6 7 8

9 10 11 12 13 14 15

16 17 18 19 20 21 22

23 24 25 26 27 28 29

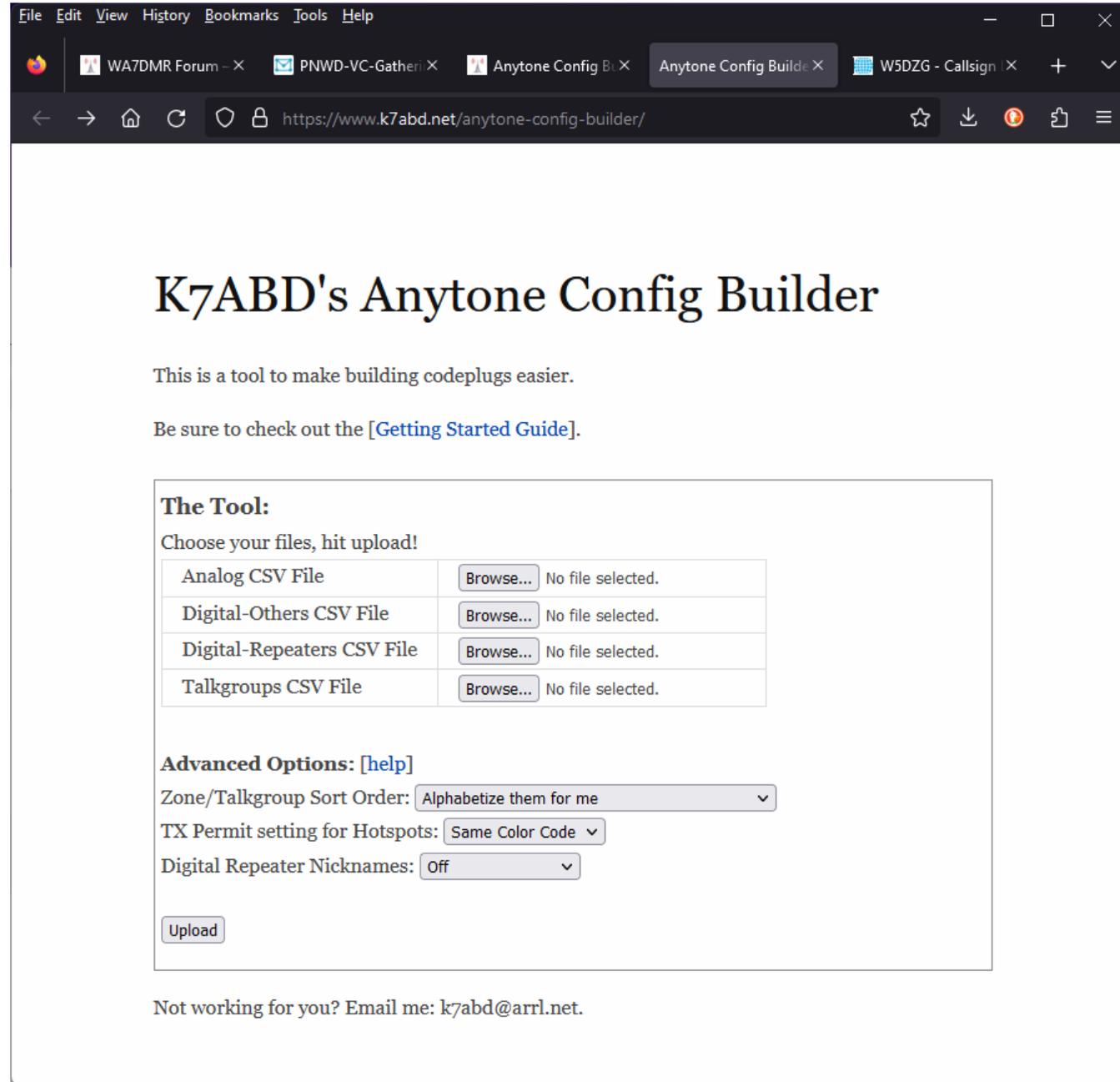
30 1 2 3 4 5 6

Latest Posts

Wes – MMDVM Server Update
March 28, 2023

Anytone AT_Options_v8
March 20, 2023

The Anytone Codeplug Builder starting page is a simple GUI to select the required files for each entry. Click on the “Browse” button and select your files.



The screenshot shows a web browser window with the URL <https://www.k7abd.net/anytone-config-builder/>. The page title is "K7ABD's Anytone Config Builder". Below the title, there is a brief description: "This is a tool to make building codeplugs easier." and a link to a "[Getting Started Guide]".

The main content area is titled "The Tool:" and contains the instruction "Choose your files, hit upload!". Below this is a table with four rows, each representing a different file type. Each row has a "Browse..." button and a status indicator "No file selected."

Analog CSV File	<input type="button" value="Browse..."/>	No file selected.
Digital-Others CSV File	<input type="button" value="Browse..."/>	No file selected.
Digital-Repeaters CSV File	<input type="button" value="Browse..."/>	No file selected.
Talkgroups CSV File	<input type="button" value="Browse..."/>	No file selected.

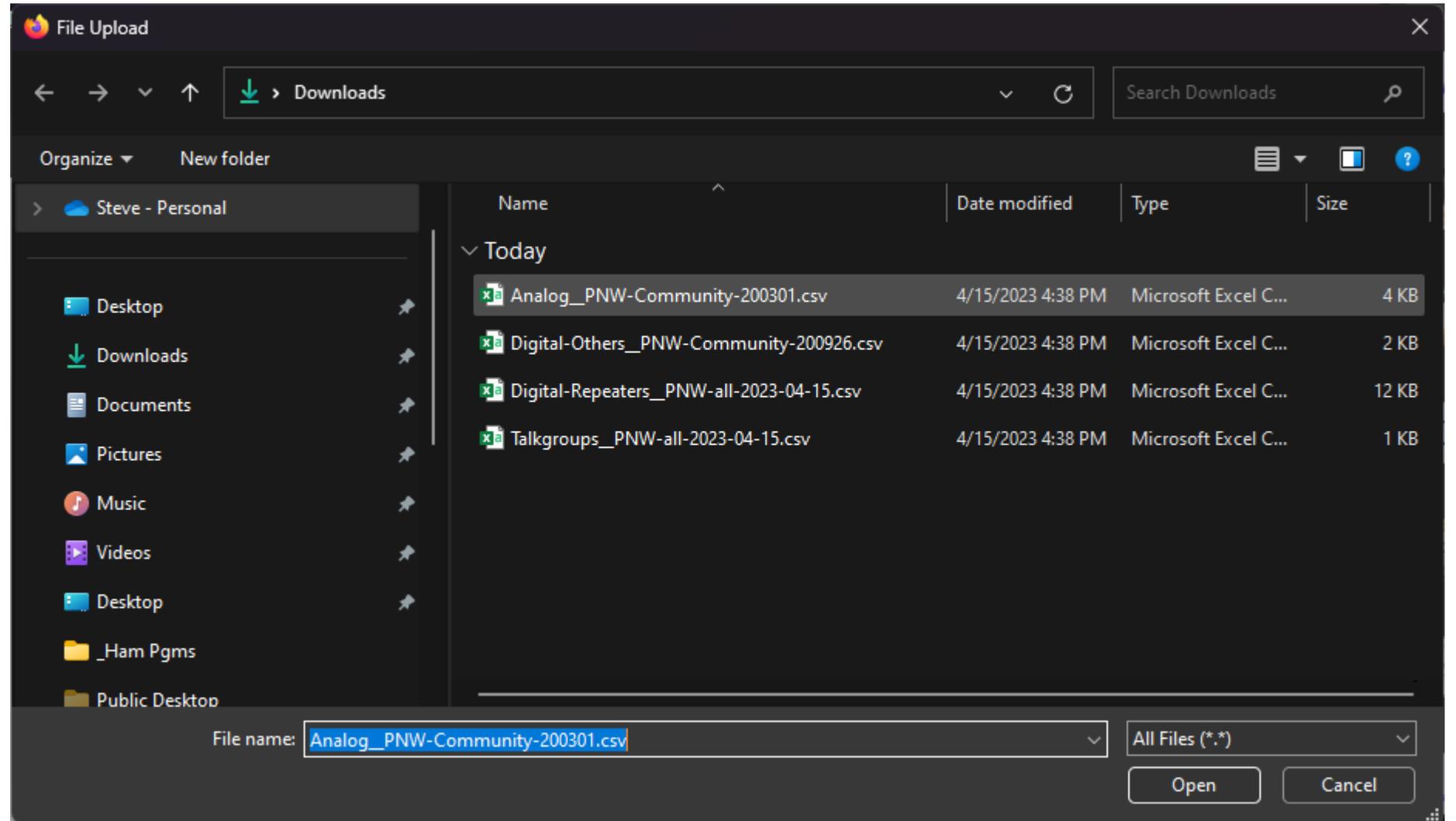
Below the table, there are "Advanced Options:" with a "[help]" link. These options include:

- Zone/Talkgroup Sort Order:
- TX Permit setting for Hotspots:
- Digital Repeater Nicknames:

An "Upload" button is located at the bottom of the form area.

At the bottom of the page, there is a link: "Not working for you? Email me: k7abd@arrl.net."

Navigate to your chosen directory for file downloads. You will return to this page 4 times to collect the required files for the form on the previous page.



The form shown with all files selected. Select the appropriate Advanced Options then click on the “Upload” button.

File Edit View History Bookmarks Tools Help

WA7DMR Forum × PNWD-VC-Gather × Anyone Config B... Anyone Config Build... W5DZG - Callsign ×

https://www.k7abd.net/anytone-config-builder/

K7ABD's Anytone Config Builder

This is a tool to make building codeplugs easier.

Be sure to check out the [\[Getting Started Guide\]](#).

The Tool:

Choose your files, hit upload!

Analog CSV File	<input type="button" value="Browse..."/>	Analog__PNW-Community-200301.csv
Digital-Others CSV File	<input type="button" value="Browse..."/>	Digital-Others__PNW-Community-200926.csv
Digital-Repeaters CSV File	<input type="button" value="Browse..."/>	Digital-Repeaters__PNW-all-2023-04-15.csv
Talkgroups CSV File	<input type="button" value="Browse..."/>	Talkgroups__PNW-all-2023-04-15.csv

Advanced Options: [\[help\]](#)

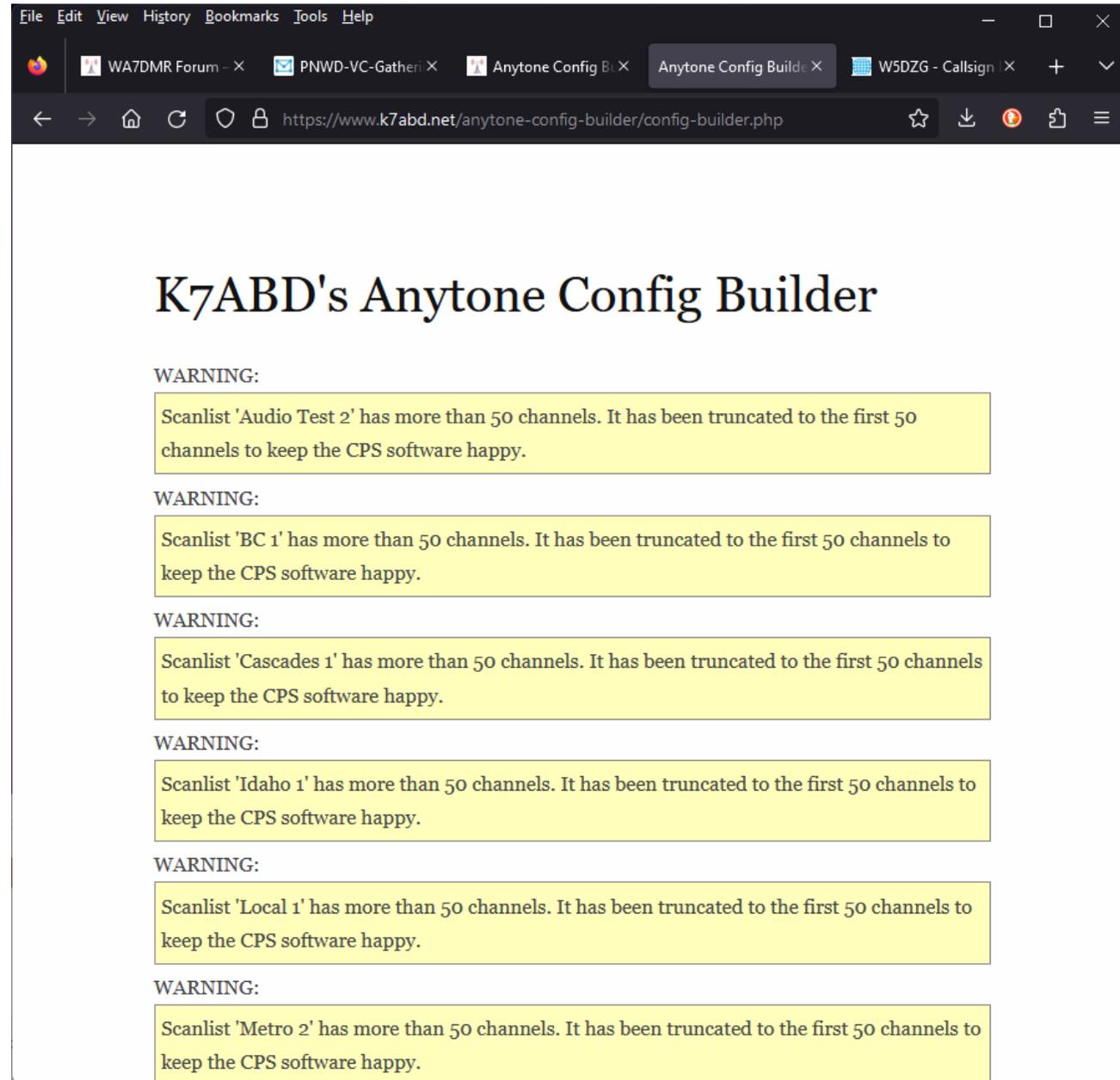
Zone/Talkgroup Sort Order:

TX Permit setting for Hotspots:

Digital Repeater Nicknames:

Not working for you? Email me: k7abd@arrl.net.

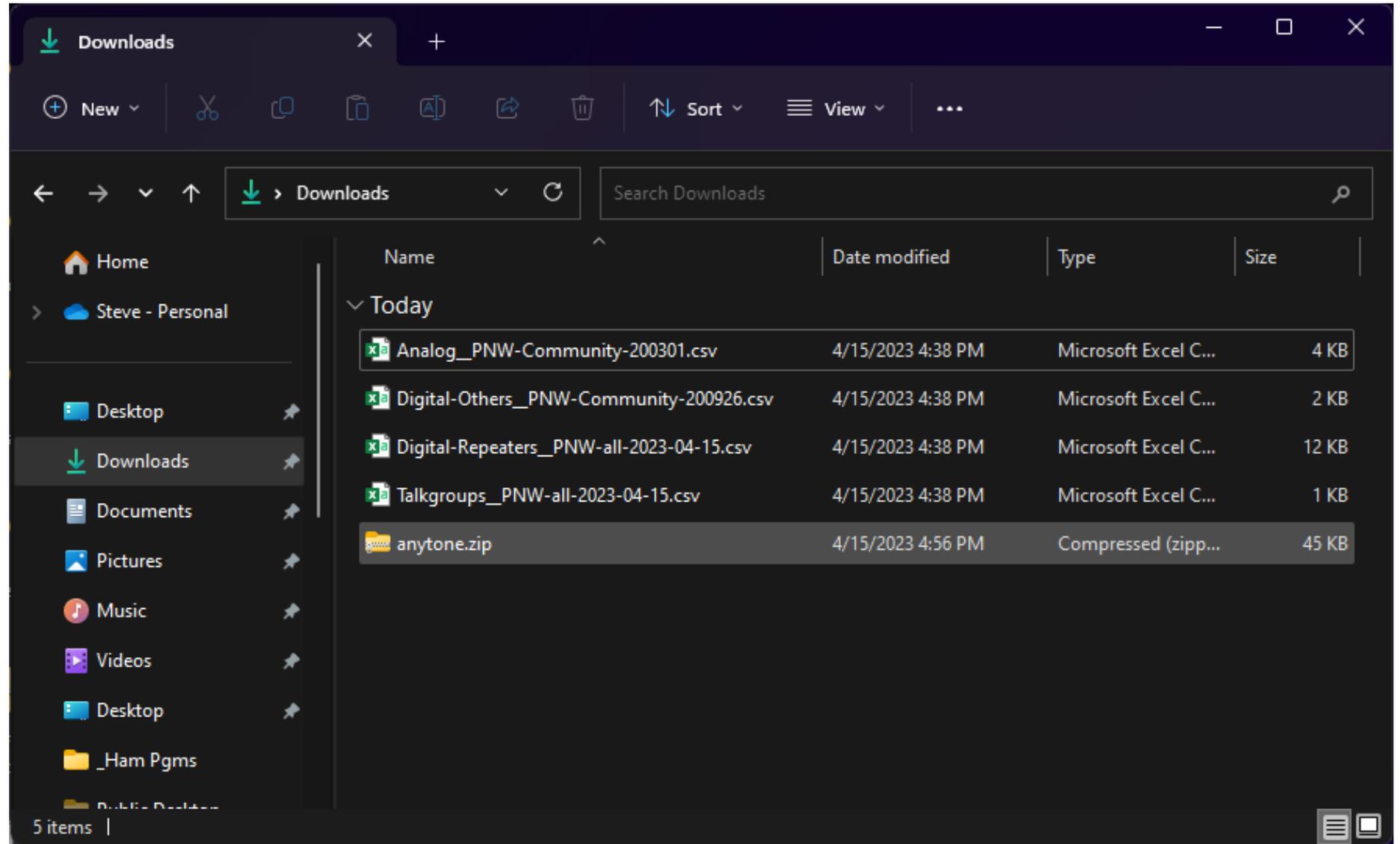
The WARNING messages are due to there being more than 50 channels (zones) for each Talkgroup. This is not fatal.



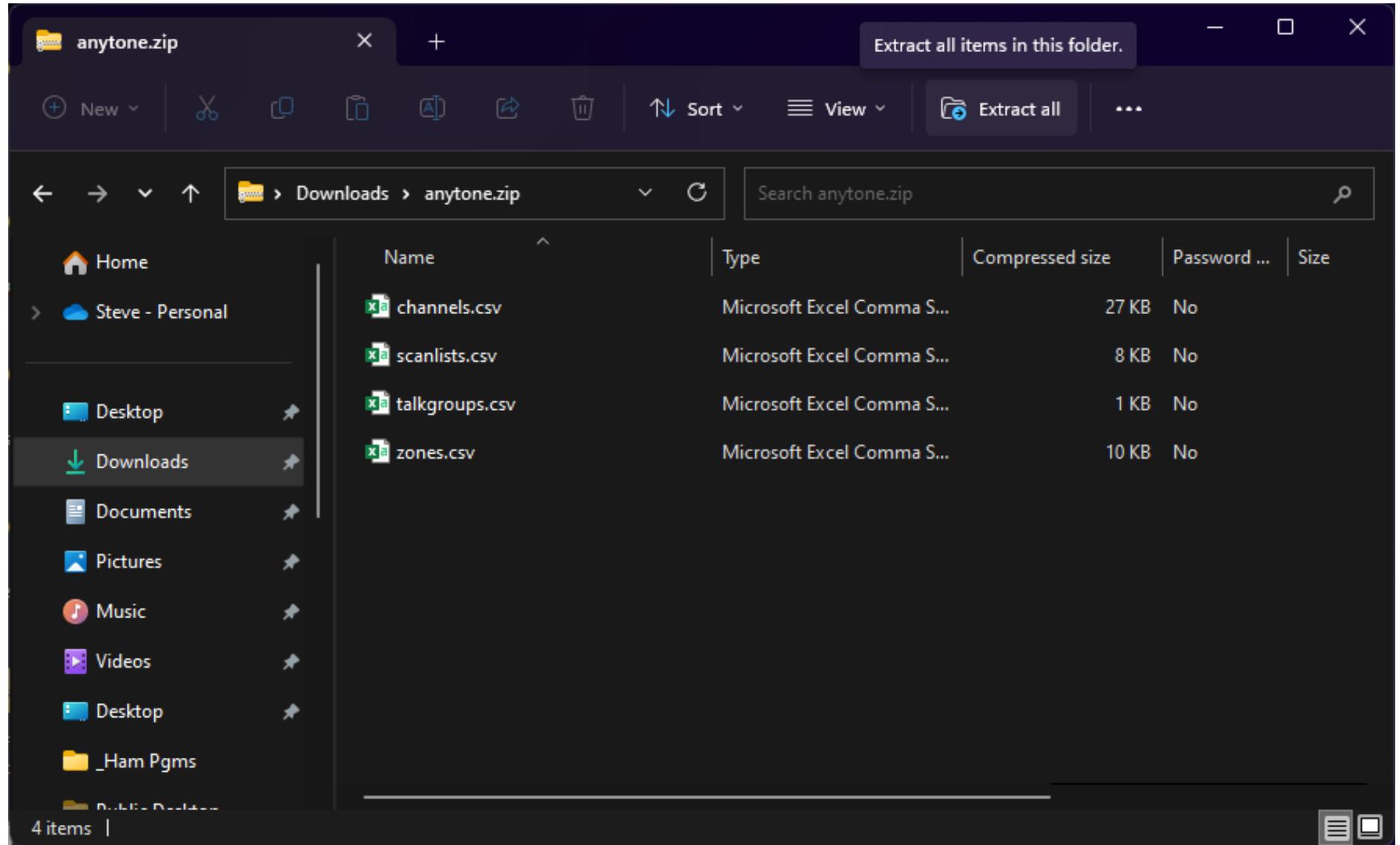
The screenshot shows a web browser window with the address bar displaying <https://www.k7abd.net/anytone-config-builder/config-builder.php>. The page title is "K7ABD's Anytone Config Builder". Below the title, there are six warning messages, each in a yellow box:

- WARNING:
Scanlist 'Audio Test 2' has more than 50 channels. It has been truncated to the first 50 channels to keep the CPS software happy.
- WARNING:
Scanlist 'BC 1' has more than 50 channels. It has been truncated to the first 50 channels to keep the CPS software happy.
- WARNING:
Scanlist 'Cascades 1' has more than 50 channels. It has been truncated to the first 50 channels to keep the CPS software happy.
- WARNING:
Scanlist 'Idaho 1' has more than 50 channels. It has been truncated to the first 50 channels to keep the CPS software happy.
- WARNING:
Scanlist 'Local 1' has more than 50 channels. It has been truncated to the first 50 channels to keep the CPS software happy.
- WARNING:
Scanlist 'Metro 2' has more than 50 channels. It has been truncated to the first 50 channels to keep the CPS software happy.

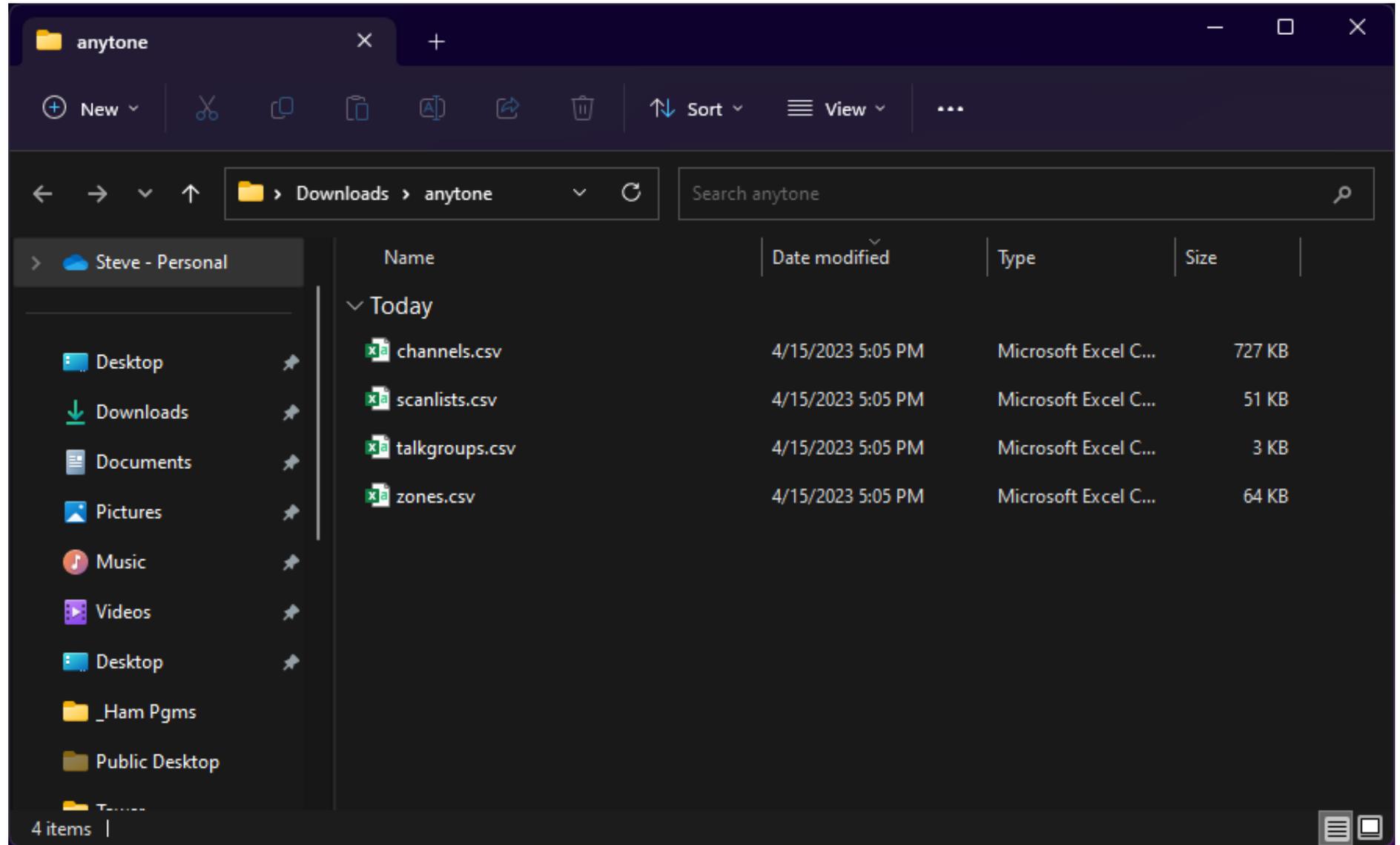
Navigate to your chosen directory for file downloads. There should be a new file called “anytone.zip” in there.



Double-click the file called “anytone.zip” and click on the top Menu bar to “Extract All” into a new folder in your chosen download directory.



You should now be presented with a folder showing the four input files for the Anytone CPS.



D578UV[D578UV:UHF(Rx(400 - 480 MHz) Tx(420 - 450 MHz)) MHF(Rx(220 - 225 MHz) Tx(222 - 225 MHz)) VHF(Rx(136 - 174 MHz) Tx(144 - 148MHz))];[d:\Users\steve\Documents\Anyone...

File Model Set Program Tool View Help

D578UV

- Common Setting
 - Channel
 - Zone
 - Scan List
 - Roaming Channel
 - Roaming Zone
 - FM
 - Auto Repeater Offset Frequer
 - Device Information
 - Optional Setting
 - Alarm Setting
 - Local Information
 - Hot Key
 - APRS
 - GPS Roaming
- Digital
- Analog

No.	Receive Frequency	Transmit Frequency	Channel Type	Power	Band Width	CTCSS/DCS Decode	CTCSS/DCS Encode	Channel Name	Contact	Radio ID
1	145.79000	145.79000	D-Digital	High	12.5K	Off	Off	Sim V01 145.790	Simplex 99	N9VW
2	145.51000	145.51000	D-Digital	High	12.5K	Off	Off	Sim V02 145.510	Simplex 99	N9VW
3	441.00000	441.00000	D-Digital	High	12.5K	Off	Off	Sim U01 441.000	Simplex 99	N9VW
4	446.50000	446.50000	D-Digital	High	12.5K	Off	Off	Sim U02 446.5	Simplex 99	N9VW
5	446.07500	446.07500	D-Digital	High	12.5K	Off	Off	Sim U03 446.075	Simplex 99	N9VW
6	433.45000	433.45000	D-Digital	High	12.5K	Off	Off	Sim U04 433.45	Simplex 99	N9VW
7	430.41250	430.41250	D-Digital	Low	12.5K	Off	Off	Sim U05 4304125	Simplex 99	N9VW
8	439.41250	439.41250	D-Digital	Low	12.5K	Off	Off	Sim U06 4394125	Simplex 99	N9VW
9	430.42500	430.42500	D-Digital	Low	12.5K	Off	Off	Sim U07 430.425	Simplex 99	N9VW
10	439.42500	439.42500	D-Digital	Low	12.5K	Off	Off	Sim U08 439.425	Simplex 99	N9VW
11	430.43750	439.43750	D-Digital	Low	12.5K	Off	Off	Rpt U09 430.4375	Simplex 99	N9VW
12	430.45000	439.45000	D-Digital	Low	12.5K	Off	Off	Rpt U10 430.450	Local 1	N9VW
13	430.46250	439.46250	D-Digital	Low	12.5K	Off	Off	Rpt U11 430.4625	Local 1	N9VW
14	430.47500	439.47500	D-Digital	Low	12.5K	Off	Off	Rpt U12 430.475	Local 1	N9VW
15	147.41250	146.41250	D-Digital	High	12.5K	Off	Off	Audio Test 2 ARA	Audio Test 2	N9VW
16	147.41250	146.41250	D-Digital	High	12.5K	Off	Off	Cascades 1 ARA	Cascades 1	N9VW
17	147.41250	146.41250	D-Digital	High	12.5K	Off	Off	Local 1 ARA	Local 1	N9VW
18	147.41250	146.41250	D-Digital	High	12.5K	Off	Off	Metro 2 ARA	Metro 2	N9VW
19	147.41250	146.41250	D-Digital	High	12.5K	Off	Off	Oregon 1 ARA	Oregon 1	N9VW
20	147.41250	146.41250	D-Digital	High	12.5K	Off	Off	Parrot 1 ARA	Parrot 1	N9VW
21	147.41250	146.41250	D-Digital	High	12.5K	Off	Off	PNW 1 ARA	PNW 1	N9VW
22	147.41250	146.41250	D-Digital	High	12.5K	Off	Off	PNW 2 ARA	PNW 2	N9VW
23	147.41250	146.41250	D-Digital	High	12.5K	Off	Off	PNW Rgnl 2 ARA	PNW Rgnl 2	N9VW
24	147.41250	146.41250	D-Digital	High	12.5K	Off	Off	TAC 1-2 ARA	TAC 1-2	N9VW

D578UV

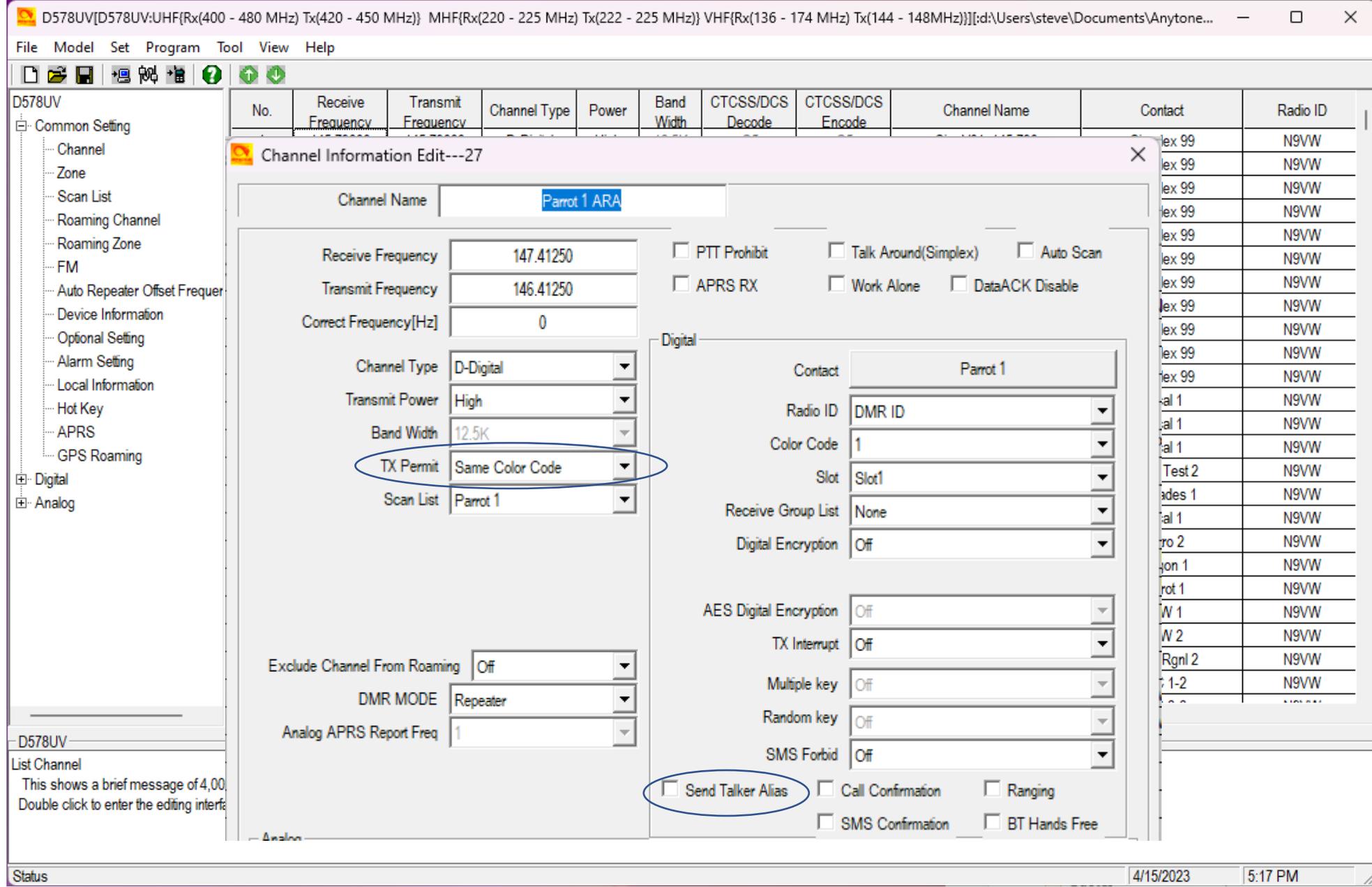
List Channel

This shows a brief message of 4,002 channels (Analog and Digital)(4000 Normal channels + VFO A Chanel + VFO B Channel)

Double click to enter the editing interface

Status 4/15/2023 5:17 PM

Open the Anytone CPS software using one of the starter codeplugs. These will set some of the base settings to make the radio perform better on the PNW Digital network.



On the “channel information” verify that you have “TX Permit” set to “Same Color Code”. This sets when the user can reply. The “Send Talker Alias” should not be checked. This feature is not supported on the network.

D578UV[D578UV:UHF(Rx(400 - 480 MHz) Tx(420 - 450 MHz)) MHF(Rx(220 - 225 MHz) Tx(222 - 225 MHz)) VHF(Rx(136 - 174 MHz) Tx(144 - 148MHz))];[d:\Users\steve\Documents\Anyone...

File Model Set Program Tool View Help

Optional Setting

D578UV

- Common Setting
 - Channel
 - Zone
 - Scan List
 - Roaming Channel
 - Roaming Zone
 - FM
 - Auto Repeater Offset
 - Device Information
 - Optional Setting
 - Alarm Setting
 - Local Information
 - Hot Key
 - APRS
 - GPS Roaming
- Digital
- Analog

D578UV

List Channel
This shows a brief message
Double click to enter the edit

Status

Alert Tone Display GPS/Ranging VFO Scan Auto repeater Record Volume/Audio Alert Tone 1
Work Mode STE AM/FM Power Save Key Function Other Digital Func Power-on

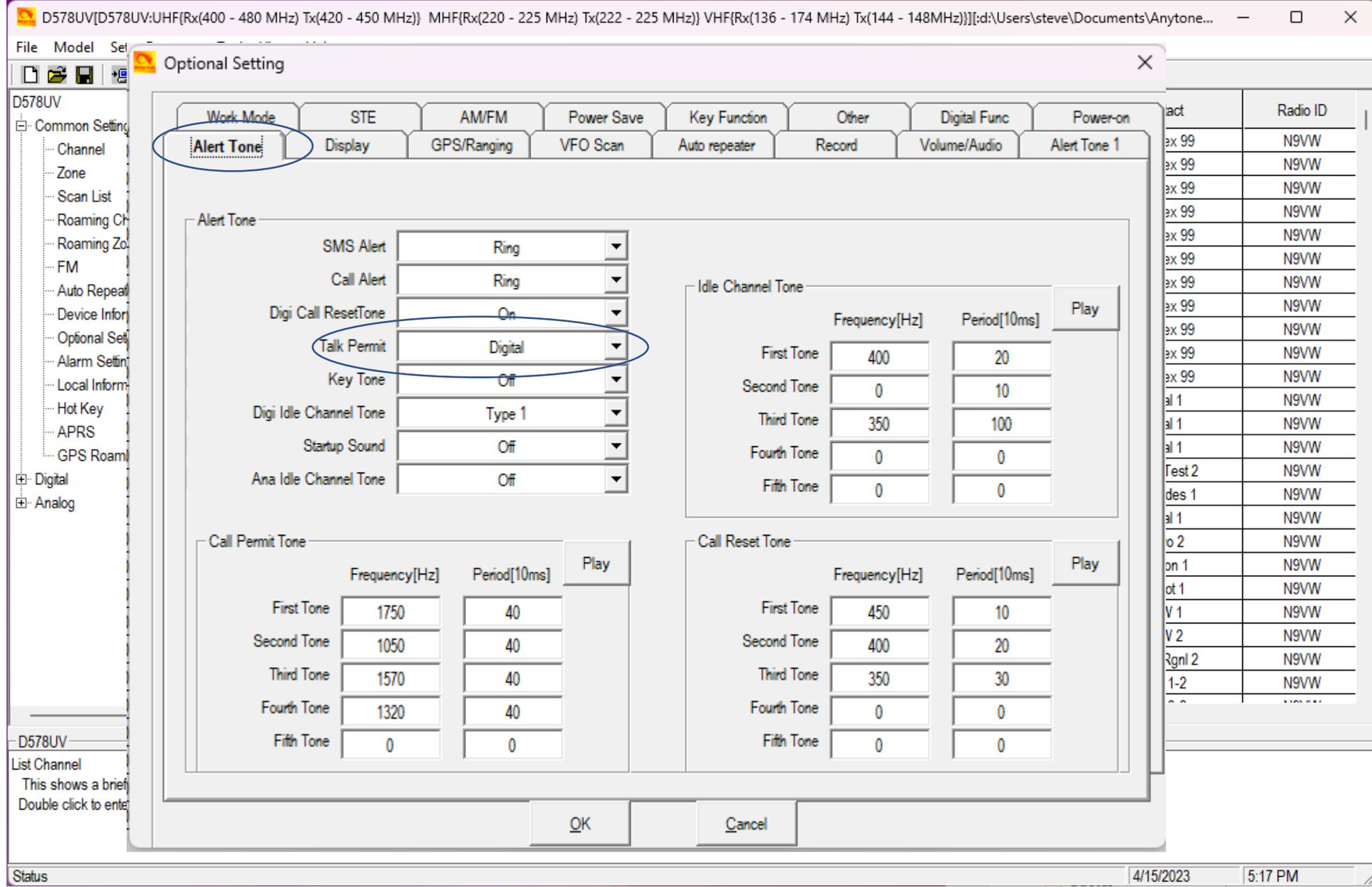
Digital Func

Group Call Hold Time	1s
Private Call Hold Time	3s
Manual Dial -Group TG Hold Time	5s
Manual Dial -Private TG Hold Time	5s
Prewave Time	100ms
Wake Head Period	100ms
Filter Own ID In MissCall	Off
Digital Remote Stun&&Kill	Off
Digital Monitor	Double Slot
Digital Monitor CC	Any
Digital Monitor ID	Any
Monitor Slot Hold	Off
Remote Monitor	Off
SMS Format	M-SMS

OK Cancel

4/15/2023 5:17 PM

On the “Optional Setting” screen, “Digital Func” tab, Verify that you have “Group Call Hold Time” set to “1s”. This enables quicker reply timing.



On the “Optional Setting” screen, “Alert Tone” tab, Verify that you have “Talk Permit” set to “Digital”. This indicates when the system is ready to accept your transmission.

D578UV[D578UV:UHF(Rx(400 - 480 MHz) Tx(420 - 450 MHz)) MHF(Rx(220 - 225 MHz) Tx(222 - 225 MHz)) VHF(Rx(136 - 174 MHz) Tx(144 - 148MHz))]:d:\Users\steve\Documents\Anyone...

File Model Set Program Tool View Help

D578UV

- Common Setting
 - Channel
 - Zone
 - Scan List
 - Roaming Channel
 - Roaming Zone
 - FM
 - Auto Repeater Offset Freq
 - Device Information
 - Optional Setting
 - Alarm Setting
 - Local Information
 - Hot Key
 - APRS
 - GPS Roaming
- Digital
- Analog

Aprs Information Manager

Import

Export

Mode

Mode Select

Channel Name/TX Freq/RX Freq is not unique

OK

Band Width	CTCSS/DCS Decode	CTCSS/DCS Encode	Channel Name	Contact	Radio ID
12.5K	Off	Off	Sim V01 145.790	Simplex 99	N9VW
12.5K	Off	Off	Sim V02 145.510	Simplex 99	N9VW
12.5K	Off	Off	Sim U01 441.000	Simplex 99	N9VW
12.5K	Off	Off	Sim U02 446.5	Simplex 99	N9VW
12.5K	Off	Off	Sim U03 446.075	Simplex 99	N9VW
12.5K	Off	Off	Sim U04 433.45	Simplex 99	N9VW
12.5K	Off	Off	Sim U05 4304125	Simplex 99	N9VW
12.5K	Off	Off	Sim U06 4394125	Simplex 99	N9VW
12.5K	Off	Off	Sim U07 430.425	Simplex 99	N9VW
12.5K	Off	Off	Sim U08 439.425	Simplex 99	N9VW
12.5K	Off	Off	Rpt U09 430.4375	Simplex 99	N9VW
12.5K	Off	Off	Rpt U10 430.450	Local 1	N9VW
12.5K	Off	Off	Rpt U11 430.4625	Local 1	N9VW
12.5K	Off	Off	Rpt U12 430.475	Local 1	N9VW
12.5K	Off	Off	Audio Test 2 ARA	Audio Test 2	N9VW
12.5K	Off	Off	Cascades 1 ARA	Cascades 1	N9VW
12.5K	Off	Off	Local 1 ARA	Local 1	N9VW
12.5K	Off	Off	Metro 2 ARA	Metro 2	N9VW
12.5K	Off	Off	Oregon 1 ARA	Oregon 1	N9VW
12.5K	Off	Off	Parrot 1 ARA	Parrot 1	N9VW
12.5K	Off	Off	PNW 1 ARA	PNW 1	N9VW
12.5K	Off	Off	PNW 2 ARA	PNW 2	N9VW
12.5K	Off	Off	PNW Rgnl 2 ARA	PNW Rgnl 2	N9VW
12.5K	Off	Off	TAC 1-2 ARA	TAC 1-2	N9VW

Zone Hide Operation

Channel Talker Alias Operation

Export Data to App(Other Data)

Export Data to App(Digital Contact List)

D578UV

List Channel

This shows a brief message of 4,002 channels (Analog and Digital)(4000 Normal channels + VFO A Chanel + VFO B Channel)

Double click to enter the editing interface

Status

4/15/2023 5:17 PM

Open the Anytone CPS software using an existing codeplug

Click on the “Tool” menu bar and select “Mode”. Ensure that the check box is checked. This sets the CPS up to allow importing from ACB files.

D578UV[D578UV:UHF(Rx(400 - 480 MHz) Tx(420 - 450 MHz)) MHF(Rx(220 - 225 MHz) Tx(222 - 225 MHz)) VHF(Rx(136 - 174 MHz) Tx(144 - 148MHz))]:d:\Users\steve\Documents\Anyone...

File Model Set Program Tool View Help

Aprs Information Manager

Import

Export

Mode

eXtended

Firmware Upgrade

Boot Image

Default Channel Information

Options

Standby BK Picture1

Standby BK Picture2

Font Setting

Export Data Conversion File

Zone Hide Operation

Channel Talker Alias Operation

Export Data to App(Other Data)

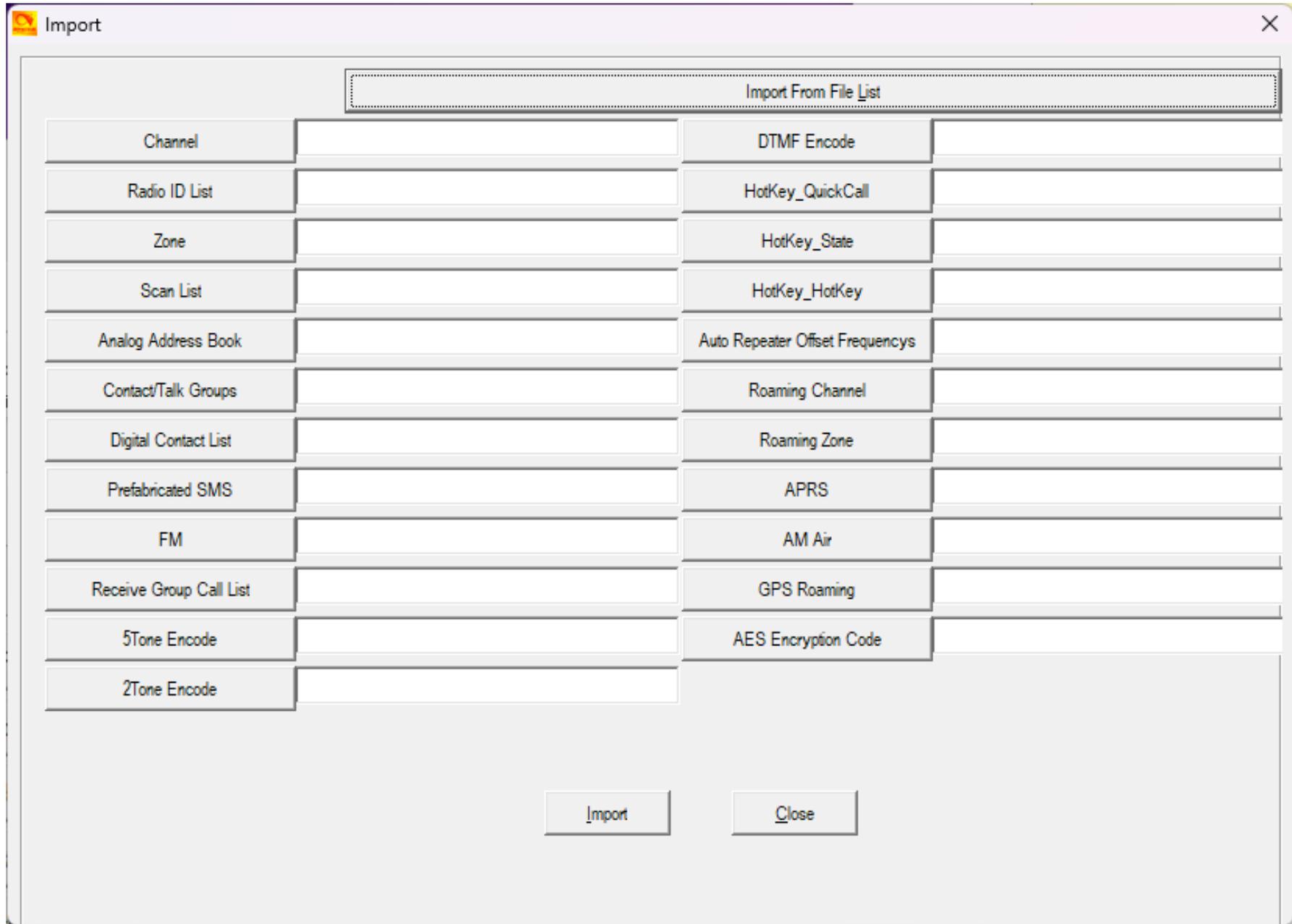
Export Data to App(Digital Contact List)

Power	Band Width	CTCSS/DCS Decode	CTCSS/DCS Encode	Channel Name	Contact
High	12.5K	Off	Off	Sim V01 145.790	Simplex 99
High	12.5K	Off	Off	Sim V02 145.510	Simplex 99
High	12.5K	Off	Off	Sim U01 441.000	Simplex 99
High	12.5K	Off	Off	Sim U02 446.5	Simplex 99
High	12.5K	Off	Off	Sim U03 446.075	Simplex 99
High	12.5K	Off	Off	Sim U04 433.45	Simplex 99
Low	12.5K	Off	Off	Sim U05 4304125	Simplex 99
Low	12.5K	Off	Off	Sim U06 4394125	Simplex 99
Low	12.5K	Off	Off	Sim U07 430.425	Simplex 99
Low	12.5K	Off	Off	Sim U08 439.425	Simplex 99
Low	12.5K	Off	Off	Rpt U09 430.4375	Simplex 99
Low	12.5K	Off	Off	Rpt U10 430.450	Local 1
Low	12.5K	Off	Off	Rpt U11 430.4625	Local 1
Low	12.5K	Off	Off	Rpt U12 430.475	Local 1
High	12.5K	Off	Off	Audio Test 2 ARA	Audio Test 2
High	12.5K	Off	Off	Cascades 1 ARA	Cascades 1
High	12.5K	Off	Off	Local 1 ARA	Local 1
High	12.5K	Off	Off	Metro 2 ARA	Metro 2
High	12.5K	Off	Off	Oregon 1 ARA	Oregon 1
High	12.5K	Off	Off	Parrot 1 ARA	Parrot 1
High	12.5K	Off	Off	PNW 1 ARA	PNW 1
High	12.5K	Off	Off	PNW 2 ARA	PNW 2
High	12.5K	Off	Off	PNW Rgnl 2 ARA	PNW Rgnl 2
High	12.5K	Off	Off	TAC 1-2 ARA	TAC 1-2

D578UV

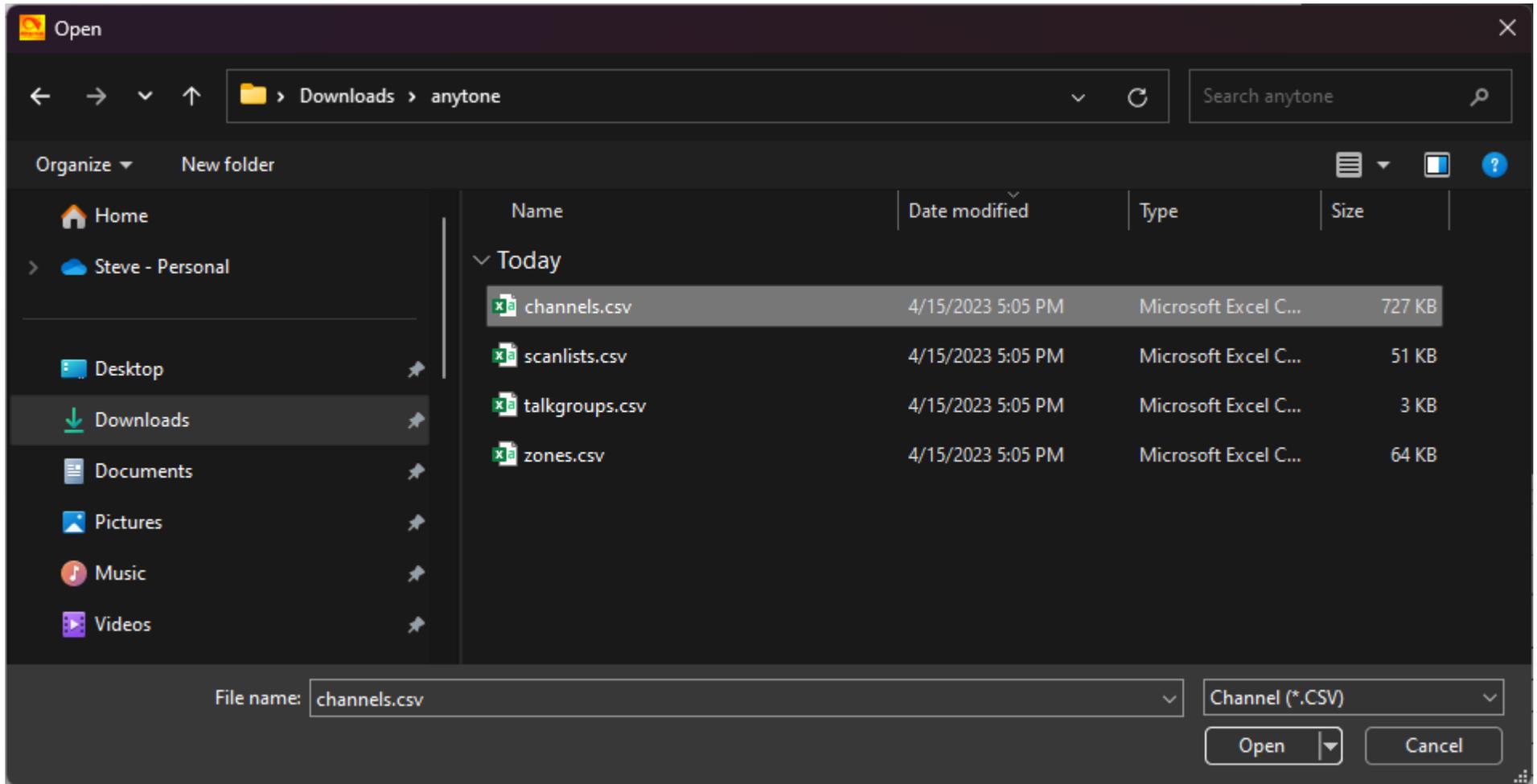
Status 4/15/2023 7:50 PM

Click on the “Tool” button on the menu bar, select “Import” from the dropdown box. This will open a selection screen like the ACB GUI.



The blank Import form for the Anytone series radios. Click on each of the following to load the new data.

- Channel
- Zone
- Scan List
- Contact/Talk Grps



Select each of the four CSV files to fill in the previous screen.

Import

Import From File List

Channel	d:\Users\steve\Downloads\anytone\channels.csv	DTMF Encode	
Radio ID List		HotKey_QuickCall	
Zone	d:\Users\steve\Downloads\anytone\zones.csv	HotKey_State	
Scan List	d:\Users\steve\Downloads\anytone\scanlists.csv	HotKey_HotKey	
Analog Address Book		Auto Repeater Offset Frequencys	
Contact/Talk Groups	d:\Users\steve\Downloads\anytone\talkgroups.csv	Roaming Channel	
Digital Contact List		Roaming Zone	
Prefabricated SMS		APRS	
FM		AM Air	
Receive Group Call List		GPS Roaming	
5Tone Encode		AES Encryption Code	
2Tone Encode			

Import Close

The completed Import form for the Anytone series radios. Click on "Import" to load the CPS with the new channel information.



- D578UV
 - [-] Common Setting
 - Channel
 - Zone
 - Scan List
 - Roaming Channel
 - Roaming Zone
 - FM
 - Auto Repeater Offset Frequer
 - Device Information
 - Optional Setting
 - Alarm Setting
 - Local Information
 - Hot Key
 - APRS
 - GPS Roaming
 - [+] Digital
 - [+] Analog

No.	Receive Frequency	Transmit Frequency	Channel Type	Power	Band Width	CTCSS/DCS Decode	CTCSS/DCS Encode	Channel Name	Contact	Radio ID
1	145.79000	145.79000	D-Digital	High	12.5K	Off	Off	Sim V01 145.790	Simplex 99	N9VW
2	145.51000	145.51000	D-Digital	High	12.5K	Off	Off	Sim V02 145.510	Simplex 99	N9VW
3	441.00000	441.00000	D-Digital	High	12.5K	Off	Off	Sim U01 441.000	Simplex 99	N9VW
4	446.50000	446.50000	D-Digital	High	12.5K	Off	Off	Sim U02 446.5	Simplex 99	N9VW
5	446.07500	446.07500	D-Digital	High	12.5K	Off	Off	Sim U03 446.075	Simplex 99	N9VW
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7	430.41250	430.41250	D-Digital	Low	12.5K	Off	Off	Sim U05 4304125	Simplex 99	N9VW
8	439.41250	439.41250	D-Digital	Low	12.5K	Off	Off	Sim U06 4394125	Simplex 99	N9VW
9	430.42500	430.42500	D-Digital	Low	12.5K	Off	Off	Sim U07 430.425	Simplex 99	N9VW
10	439.42500	439.42500	D-Digital	Low	12.5K	Off	Off	Sim U08 439.425	Simplex 99	N9VW
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13	430.46250	439.46250	D-Digital	Low	12.5K	Off	Off	Rpt U11 430.4625	Local 1	N9VW
14	430.47500	439.47500	D-Digital	Low	12.5K	Off	Off	Rpt U12 430.475	Local 1	N9VW
15	147.41250	146.41250	D-Digital	High	12.5K	Off	Off	Audio Test 2 ARA	Audio Test 2	N9VW
16	147.41250	146.41250	D-Digital	High	12.5K	Off	Off	BC 1 ARA	BC 1	N9VW
17	147.41250	146.41250	D-Digital	High	12.5K	Off	Off	Bridge 2 ARA	Bridge 2	N9VW
18	147.41250	146.41250	D-Digital	High	12.5K	Off	Off	California 1 ARA	California 1	N9VW
19	147.41250	146.41250	D-Digital	High	12.5K	Off	Off	Cascades 1 ARA	Cascades 1	N9VW
20	147.41250	146.41250	D-Digital	High	12.5K	Off	Off	I-5 1 ARA	I-5 1	N9VW
21	147.41250	146.41250	D-Digital	High	12.5K	Off	Off	Idaho 1 ARA	Idaho 1	N9VW
22	147.41250	146.41250	D-Digital	High	12.5K	Off	Off	Local 1 ARA	Local 1	N9VW
23	147.41250	146.41250	D-Digital	High	12.5K	Off	Off	Metro 2 ARA	Metro 2	N9VW
24	147.41250	146.41250	D-Digital	High	12.5K	Off	Off	Montana 2 ARA	Montana 2	N9VW

D578UV

List Channel

This shows a brief message of 4,002 channels (Analog and Digital)(4000 Normal channels + VFO A Chanel + VFO B Channel)
 Double click to enter the editing interface

The codeplug is now ready to be written to the radio.