8800 Series Frequency List Usage

Frequency List Configuration


Frequency lists can be manually entered on this page or modified with a standard spreadsheet on an external computer.

- The Frequency list configuration screen provides the ability to save different types of Frequency Lists.

- The Analog List is the most simple allowing entry of:

  - Label

  - Generator Frequency

  - Receiver Frequency

  - Generator RF Output Level

  - Set Level

    - On – When the frequency is selected the generator level will be set as indicated.

    - Off – The Generator Level will not be changed when the frequency is selected.

- Other lists allow entry of generator modulator settings used to open the squelch on a receiver under test.

- Digital formats allow entry of technology specific codes like NAC for P25.

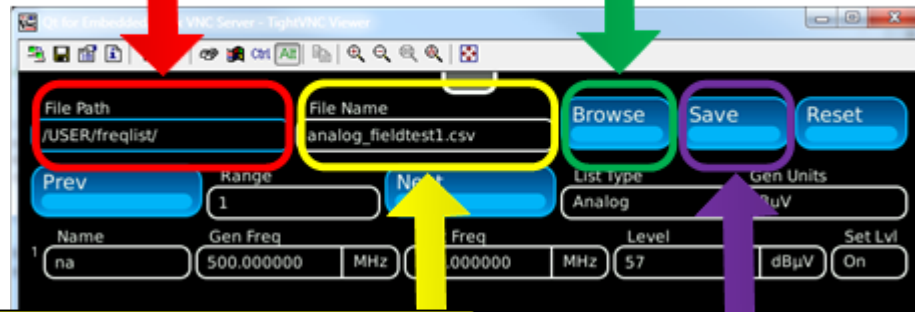# Frequency List Configuration

Access the Frequency List from the Config menu by selecting Freq List
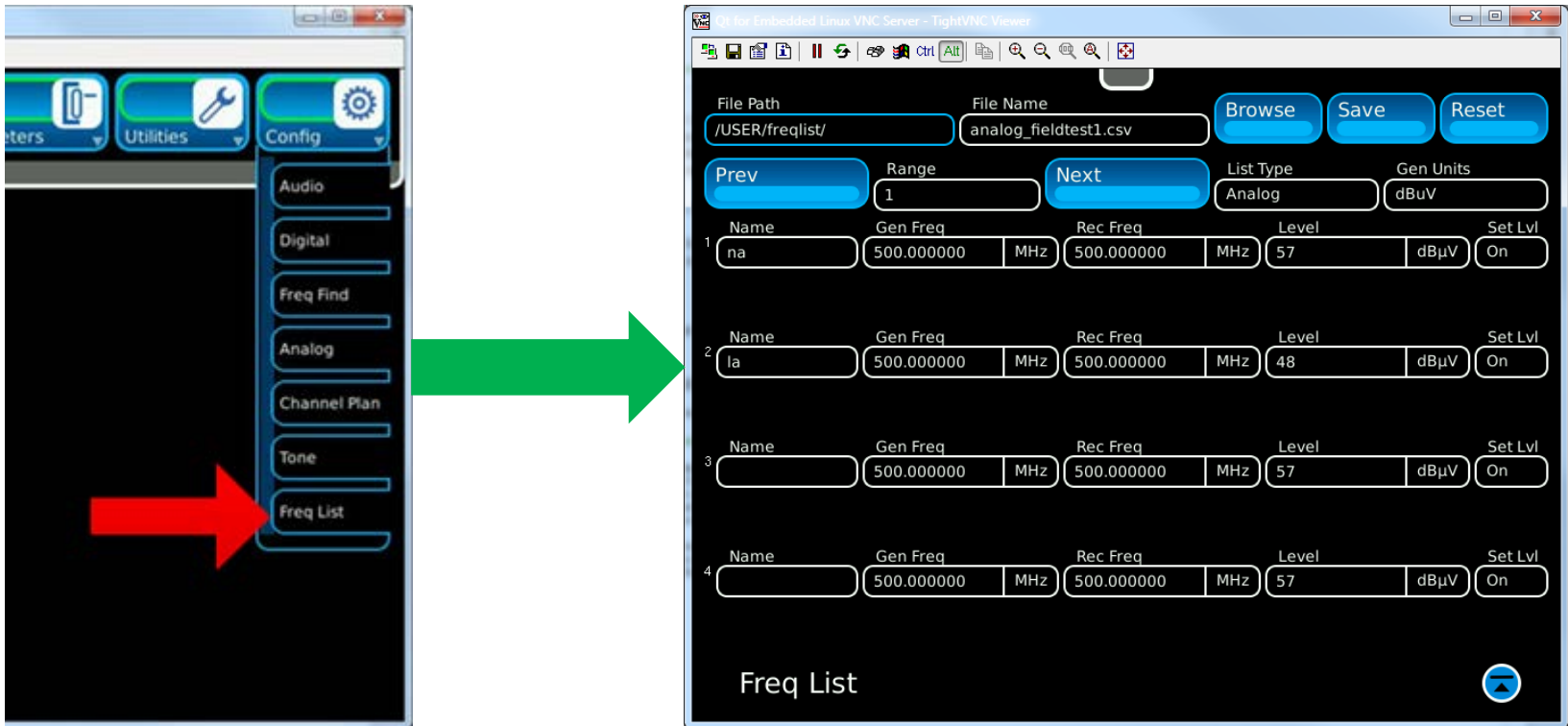
Save Frequency List

2. Verify file path is correct in the File Path Field.

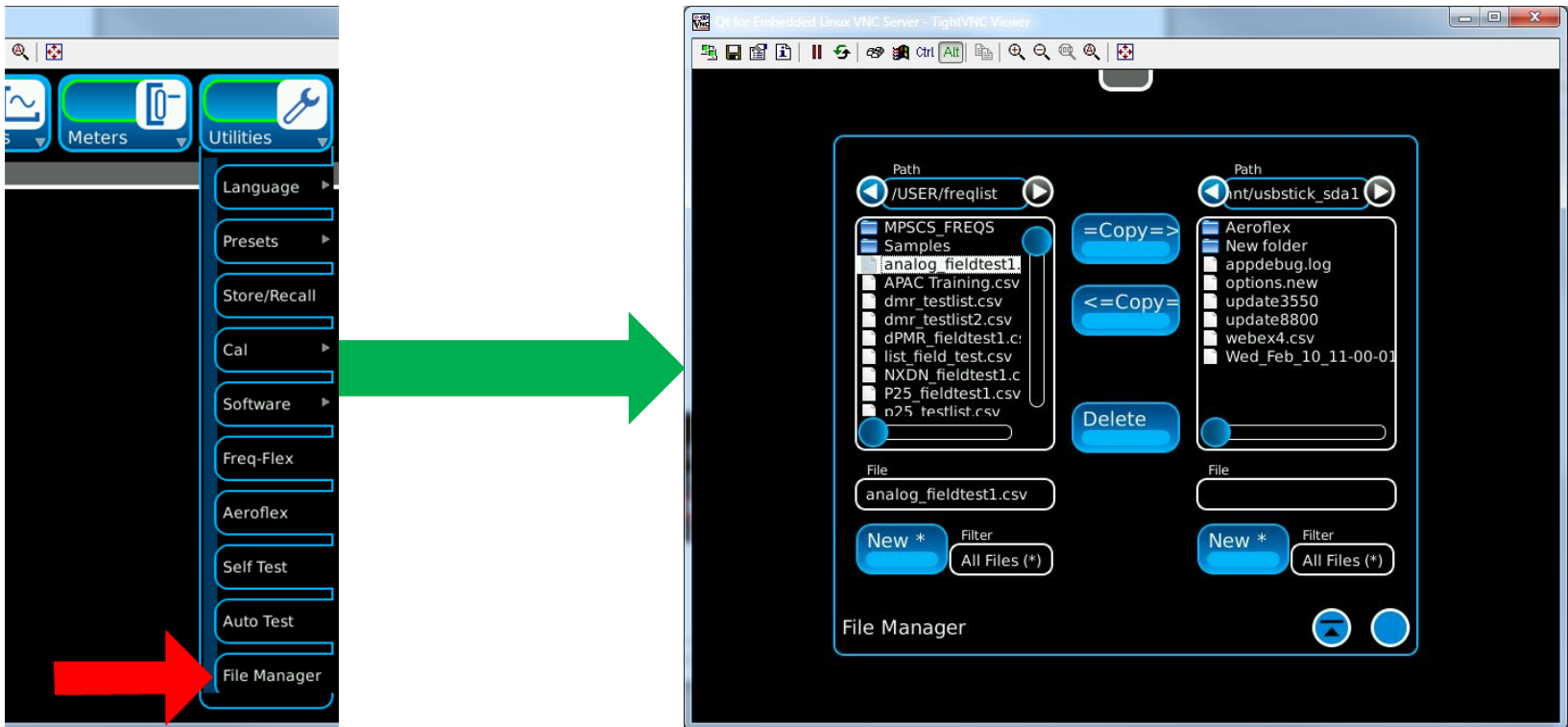1. Click "Browse" to select the file path where the frequency list will be saved.

3. Enter a file name*.

4. Click "Save" to store the new frequency list.

*Note: Do not use spaces in the file name. Use underscores or hyphens to separate parts of the name.

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File Manager

Access the File Manager screen from the Utilities Menu

Copy Frequency List to USB Drive

- Click "freqlist", then click the right arrow above.
- Click "usbstick_sda1" after it appears, then click the right arrow above.
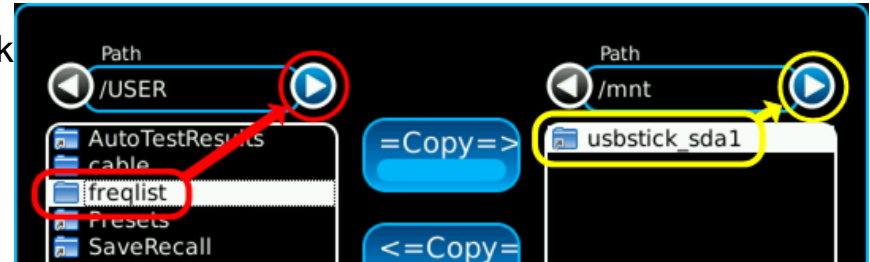
- Select the file to copy to the USB flash drive.
- Click "=Copy=>" to copy the selected file to the USB flash drive.
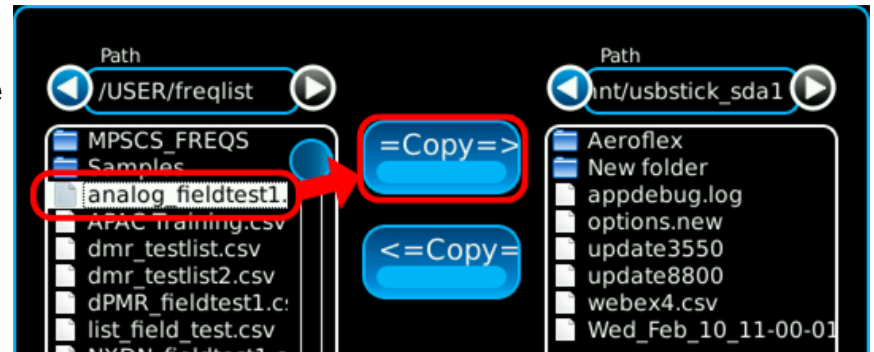
- To copy the modified frequency list back onto the 8800SX or to other units, reverse this process.

Frequency List Editing

Because the Frequency List is saved as a ".csv" file, it can be modified using a spreadsheet program such as Microsoft Excel.

The following tables list the spreadsheet columns and their corresponding settings by frequency list type.

Common Settings

All current frequency lists have values in cells A1, A2, and A3

- A1 – List Version
  This number corresponds to formatting of the frequency list. It lets the software know which fields are used. This value should not be altered by the user.
- A2 – List Type
  This number primarily indicates what protocol the frequency list is for (0=Analog; 1=PL DCS; 2=P25; 3=DMR; 4=NXDN; 5=dPMR).
- A3 – Gen Units
  This field is set by the Gen Units Field, and indicates what units are used for the Generator RF Level (0=dBm; 1=uV; 2=dBuV).

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Analog Frequency List

Column	Screen Label	Description
A	Name	Label given to selected frequency pair
B	Gen Freq	Generator RF frequency in MHz
C	Rec Freq	Receiver RF frequency in MHz
D	Level	Generator RF level in units defined by field A3
E	N/A	
F	N/A	
G	N/A	
H	N/A	
I	N/A	
J	N/A	
K	N/A	
L	N/A	
M	N/A	
N	N/A	
O	N/A	
P	Set Lvl	Freq List sets Generator RF Level – 0=Off; 1=On
Q	N/A	

PL DCS Frequency List

Column	Screen Label	Description
A	Name	Label given to selected frequency pair
B	Gen Freq	Generator RF frequency in MHz
C	Rec Freq	Receiver RF frequency in MHz
D	Level	Generator RF level in units defined by field A3
E	Mod 1 Freq	Modulation AF frequency in kHz
F	Mod 1 Level	Modulation FM deviation in kHz
G	Mod 2 Freq	When PL is selected, Modulation AF frequency in kHz
H	Mod 2 / DCS Level	Modulation FM deviation in kHz
I	Mod 1	Mod 1 enable – 0=Off; 1=On
J	DCS	DCS enable – 0=Off; 1=Norm; 2=Invert
K	N/A	
L	N/A	
M	N/A	
N	N/A	
O	DCS Code	DCS code in decimal
P	Set Lvl	Freq List sets Generator RF Level – 0=Off; 1=On
Q	Type	Sets squelch type – 0=PL(CTCSS); 1=DCS

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P25 Frequency List

Column	Screen Label	Description
A	Name	Label given to selected frequency pair
B	Gen Freq	Generator RF frequency in MHz
C	Rec Freq	Receiver RF frequency in MHz
D	Level	Generator RF level in units defined by field A3
E	N/A	
F	N/A	
G	N/A	
H	N/A	
I	N/A	
J	N/A	
K	NAC	NAC value in decimal
L	N/A	
M	N/A	
N	N/A	
O	N/A	
P	Set Lvl	Freq List sets Generator RF Level – 0=Off; 1=On
Q	N/A	

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DMR Frequency List

Column	Screen Label	Description
A	Name	Label given to selected frequency pair
B	Gen Freq	Generator RF frequency in MHz
C	Rec Freq	Receiver RF frequency in MHz
D	Level	Generator RF level in units defined by field A3
E	N/A	
F	N/A	
G	N/A	
H	N/A	
I	N/A	
J	N/A	
K	Color	Channel Color Code
L	Call ID	Call ID
M	N/A	
N	N/A	
O	N/A	
P	Set Lvl	Freq List sets Generator RF Level – 0=Off; 1=On
Q	N/A	

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NXDN Frequency List

Column	Screen Label	Description
A	Name	Label given to selected frequency pair
B	Gen Freq	Generator RF frequency in MHz
C	Rec Freq	Receiver RF frequency in MHz
D	Level	Generator RF level in units defined by field A3
E	N/A	
F	N/A	
G	N/A	
H	N/A	
I	Rate	Baud Rate – 0=4800; 1=9600
J	N/A	
K	RAN	Channel RAN in decimal
L	N/A	
M	N/A	
N	N/A	
O	N/A	
P	Set Lvl	Freq List sets Generator RF Level – 0=Off; 1=On
Q	N/A	

dPMR Frequency List

Column	Screen Label	Description
A	Name	Label given to selected frequency pair
B	Gen Freq	Generator RF frequency in MHz
C	Rec Freq	Receiver RF frequency in MHz
D	Level	Generator RF level in units defined by field A3
E	N/A	
F	N/A	
G	N/A	
H	N/A	
I	N/A	
J	N/A	
K	CC	Channel Color Code
L	Comms Format	Communication Format – 0=Broadcast; 1=Peer-to-Peer; 2&3 are reserved for future use
M	Call ID	Call ID
N	Unit ID	Unit ID
O	N/A	
P	Set Lvl	Freq List sets Generator RF Level – 0=Off; 1=On
Q	N/A	

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Using a Frequency List
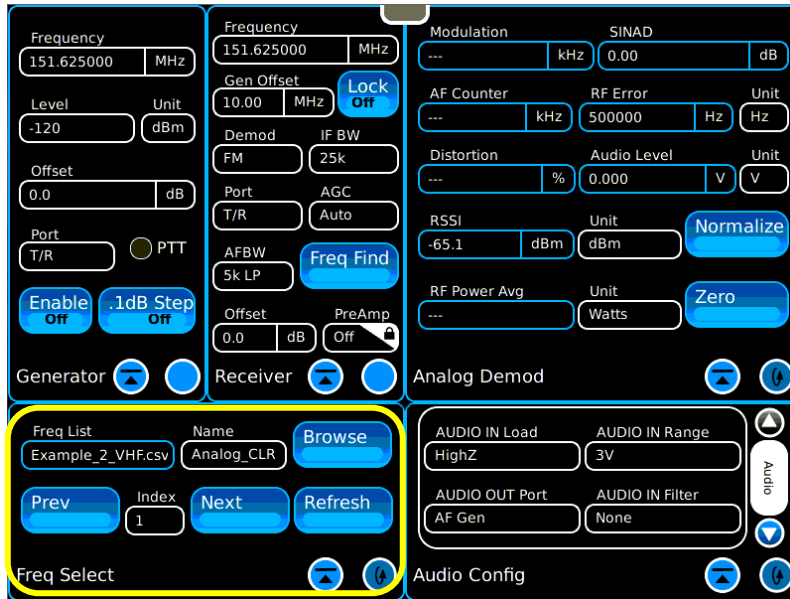
- An existing frequency list can be used by selecting the Receivers>Freq Select Tile.
  - Frequency List – Choose the list that you want to use
  - Name – This is the label that was entered in the list
  - Browse – Use to choose a different frequency list
  - Prev and Next Buttons – Use these to step forward and backwards through the list entries
  - Index – Indicates the list index number
    - If the generator or receiver frequency is changed manually, the list index will reset to 0
    - This is also an entry to immediately go to a specific list entry

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8800SX Options and Accessories

8800SX Options and Accessories

139942	8800SX Digital Radio Test Set

Standard Accessories

Fuse, 5 A, 32 V, Mini Blade	Power Supply
AC Power Cord - USA	AC Power Cord - China
AC Power Cord - Europe	AC Power Cord - UK
Adapter, N(m) to BNC(f), Qty 3	Front Cover
Internal Battery	

Options

113334	8800OPT01 DMR
113335	8800OPT02 dPMR
113336	8800OPT03 NXDN
113337	8800OPT04 P25
138895	8800OPT05 P25 Phase 2
140215	8800OPT06 DMR Repeater Test
113338	8800OPT09 ARIB T98
113339	8800OPT10 Tracking Generator
113340	8800OPT11 Occupied Bandwidth
113309	8800OPT12 Internal Precision Power Meter (Meter + Sensor)
113342	8800OPT13 External Precision Thru-Line Meter (for use with Bird WPS Sensor)
113343	8800OPT14 PTC
113344	8800OPT15 AAR Channel Plan
139836	8800OPT20 R&S NRT-Z Power Sensor Support
139837	8800OPT21 Selectable Notch Filters
139838	8800OPT22 SNR Meter
138525	8800OPT101 Kenwood NXDN Auto-Test
138526	8800OPT102 Kenwood 5X20 P25 Series Auto-Test
138527	8800OPT103 Motorola APX Auto-Test
138528	8800OPT104 Motorola MOTOTRBO™ Auto-Test
139315	8800OPT105 Motorola ASTRO® 25 XTS®/XTL™ Auto-Test

Languages

113350	8800OPT300 Simplified Chinese
113351	8800OPT301 Traditional Chinese
113352	8800OPT302 Spanish
113353	8800OPT303 Portuguese
113354	8800OPT304 Malay/Indonesian
113355	8800OPT305 Korean
113356	8800OPT306 Arabic
113357	8800OPT307 Polish
113358	8800OPT308 Russian
113359	8800OPT309 Japanese
113360	8800OPT310 German
113361	8800OPT311 French
139625	8800OPT312 Italian

Accessories

138313	Calibration Certificate - 8800 Series
82560	AC27003 Attenuator - 20 dB/150 W
67076	Spare Internal Battery
114479	External Battery Charger
114477	Hard Transit Case
114478	Soft Carrying Case
114475	Antenna Kit
114348	Precision DTF/VSWR Accessory Kit for 8800
63927	AC25081 Site Survey Software
92793	5017D Bird Power Sensor
114312	Mounting Bracket
112861	Microphone
62404	DC Cord/Cigarette Adapter
63936	AC24009 DMM Test Leads
112277	10 AMP Current Shunt, 0.01 Ohm
67411	Scope Probe Kit

Extended Warranties

114481	Extended Standard Warranty 36 Months
114482	Extended Standard Warranty 60 Months
114483	Extended Standard Warranty 36 Months with Scheduled Calibration
114484	Extended Standard Warranty 60 Months with Scheduled Calibration

Select 8800SX Accessories Overview

Soft Case   114478

The soft case allows full operation of the 8800SX while inside the case. The laptop style design is lightweight and provides extra protection during field operation. Storage pockets provide extra space for spare batteries, test cables, etc.

Hard Transit Case   114477

The hard transit case features form-fitted slots for the 8800SX, protective cover, precision VSWR/DTF Kit, power supply, 150 W attenuators, spare battery, and more.

Precision DTF/VSWR Accessory Kit   114348

This accessory kit provides all items necessary for accurate and VSWR, Return Loss, and Distance-to-Fault measurement. The kit includes a case, return loss bridge, power divider, 50 Ω calibrator, and two N-type test cables specifically designed for the 8800SX.

Bird 5017D Thru-Line Power Sensor   92793

The 8800SX also supports the Bird 5017D Thru-Line Power Sensor as an external power meter for users that already have the 5017D. This capability requires 88XXOPT13 and provides simultaneous forward and reverse power measurements up to 500 W and VSWR measurements that are displayed on the 8800SX screen.

Questions or Comments?

Contact Information

For information about pricing for our products, contact the sales office by calling VIAVI Solutions at (800) 835-2352 or emailing AvComm.Sales@viavisolutions.com.

For technical/product support, calibration, maintenance and general customer service inquiries, you can contact our help desk by clicking here, calling (800) 835-2350, or emailing Service.Americas@aeroflex.com.

Click here for more information on the 8800SX and latest software versions and training materials.

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