PowerSDR 2.7.2 ke9ns Feature add list:

**Automatic Antenna Control:** Setup->CAT Control->Enable Rotor. You must select 1 side of a virtual COM port pair. The other side of the COM pair connects to DDUtil. DDUtil will automatically convert the beam heading into the proper format for your Rotor control.  
Left Click on the BEAM HEADING of a DX spot in the Spotter window to Move Antenna  
OR, Left Click on the Right Side of a DX Spot + CTRL Key in the Panadapter to Move Antenna   
In DDUtil open setup form->AntRtr and setup your antenna Rotor control(s).  
 Then go to setup form->Ports->RCP1->Rotor Port and the “Other side” of the COM pair from PowerSDR.

**MP3 output:** Scheduler/Recorder automatically saves only in MP3. Wave->QuickAudio Create MP3 checkbox, saves a WAV file and an MP3 file (For emailing the audio files to friends)

**VFOA Slider:** Left Click on PAN: text to free up the VFOA to slider around the display.  
 **SWL BANDS:** 14 standard Shortwave Listening bands, each with their own Bandstacking memories. **SWL SPOTTER:** SWL.CSV database file (from eibispace.de) provides over 11000 shortwave broadcast, utility, and government frequencies all displayed directly on the Panadapter. CTRL+ Click on a station to open up a google search.  
**SWL Listing screen:** Displays currently operating SWL stations by Frequency and is SEARCHABLE by Station Name. Left Click to go to frequency. Attempts to determine the mode (AM, DIGU, USB, CW).   
**SWL Additional list**: SWL2.csv provided by ke9ns adds SWL and HF Utility frequencies not found in the eibispace.de SWL.csv file. PowerSDR stiches SWL.csv and SWL2.csv together when you run the SWL spotter.  
 **DX Beam Heading:** Enter in your Lat and Long next to your Call sign in the Spotter window, and see Beam heading from your Station. Map Checkbox to see beam headings on the Tracking Map.  
**DX CLUSTER**: Using and internet and a DX Cluster URL address:port, and your callsign, DX station data shows up in a window based on time, checking for duplicates in frequency and call sign. Left click in this list to go directly to Frequency parsing out operating mode, and split. Right click to go to QRZ page   
**DX SPOTTER**: Displayed directly onto the Panadapter. CTRL + Click on spot in Pan, goes to QRZ page. SHIFT+Click on spot in Pan, alternates display from Spotted to <Spotter>. 6m includes grid data  
**Grayline & Suntracker**: World map plots Sun and/or Grayline, including Solstice and Space Weather data. Grayline has fill color and transparency settings and can be turned off separately.  
**Special Panafall mode:** 80% map, 20% waterfall.  
**Mapping DX spots** directly onto map which are live and selectable: CTRL+Click over red dot, to go directly to frequency, mode, and split.   
**MEMORY list mapped** directly to Panadapter. CTRL+Click on memory in Pan, to adjust filters, mode  
**MEMORY Added** directly from Display: ALT+M key  
**MEMORY Hyperlinking**: Drag/Drop a URL or file directly onto highlighted MEMORY (from memory screen). Right click on highlighted memory (from memory screen) to activate stored Hyperlink.  
**Memory (Scheduling & Recording):**You can now save a start Date & Time to change Frequency and optionally Record, repeating based on either the Week, or the Week of the Month. (i.e. Every Monday, or Last Monday of every month)  
 **Bandstack Memory Window**: Bandstack index# and size on main console window. Right click to open window. Add up to 9 memories (every band) with CTRL+Right Click on Band button.  
**Bandstack LOCK/UNLOCK** feature for each memory in each Bandstack. Right Click on bandstack memory.  
  
**NOAA space weather** on main console screen (SFI, A, K, SSN) in addition to PA Temp and Voltage.  
**Panadapter Fill color and Transparency**.  
 **New Analog Meters**: Click on meters to cycle through all 3 (can also change colors). Also added RX “Signal peak” RX mode  
**2nd TX Meter Function**: allows you to view 2 TX meter functions at the same time. Appears where the RX2 meter would be.  
  
**One Touch Automatic Small signal Panadapter Scale adjustment button:** Left click on “Zoom:” text **One Touch Automatic Waterfall Adjustment button:** (RX & TX) with offset adjustment sliders.  
**One Touch Automatic Panadapter Adjustment button:** (RX & TX) with offset adjustment sliders.  
**Separate waterfall Low levels for TX display** and RX2.  
**RX1 and RX2 both display in PanaFall mode at same time**.  
**Waterfall History moves** with Panadapter, so the history is always accurate.   
**Gray waterfall** (for viewing waterfall text and images)  
**TX WaterID:** Transmit your call sign directly into the waterfall so anyone with a DSP can see your call sign (or transmit an bmp image)  
 **RX1 mute** allow VAC to continue, while still listening to RX2  
**CWX panel** polls CW Key to interrupt message queue. Speed of CWX and CW key panel synced.  
**Direct Frequency entry in KHZ** or MHZ (both VFOA and VFOB)  
Native **Griffin PowerMate** USB knob support: no extra software  
Native **DJConsole** USB support: no extra software  
  
**Quick Audio Save folder** allows multiple saved recordings that can be played from the main console screen REC and PLAY buttons  
**PLAY button**: Right click to see folder with your quickaudio files you can select from  
**Rec/Play ID feature**: <REC>: Auto Record your voice. <PLAY>: Auto Play to Transmitter. For Contesting.   
**Monitor function for AM/FM** modes (with limitations)  
**Monitor Pre and Post** options (MONpr and MONps)  
**DSP Options (i.e. NR, ANF, NB)** reset to default buttons added.  
**TNF** adjustable width  
**Band Scanner** function  
**Continuum** display mode for RX1  
**Corrected S9 reading above 30mhz**  
**10khz wide TX** Audio for 1500 and 3000  
Opened up **RX Audio to 15khz/side** (30khz total)  
**Right Click** on many buttons to go directly to setup screens (i.e. VAC1, NB, transmit profile)  
Fix 6m lower limit for UK  
Fix Full duplex (with RX2) operation not allowing VAC1 when transmitting on VFOB