KiwiSDR setup to use the DREAM Receiver.

After John Seamons added a 10KHz IQ stream to the KiwiSDR clients, the opportunity to send the SDR IQ data to another receiver such as HDSDR or Dream DRM receiver needed to be setup! There are general instructions at kiwisdr.com located here:
http://kiwisdr.com/quickstart/index.html#id-faq-drm

The system I chose to configure for this service sports an Intel I5 2nd generation processor and 8Gb of RAM. So not a super duper computer, but a serviceable one. It is using openSUSE 42.3 for the operating system and the standard and community repositories are installed, including this one:
http://download.opensuse.org/repositories/hamradio/openSUSE_Leap_42.3/

The Dream receiver is available in the above repository as well as the codec that is needed to decode the DRM signals. faad2, libfaad-devel, libfaad2, libfaad_drm2, are all installed on this system.

Pulseaudio, Alsa, and Pavucontrol are installed. Google Chrome and Firefox are the web browsers in use.

Pulseaudio is configured to provide a virtual audio cable with the following command sent via the terminal:

```
ron@linux-4cdz:~/> pactl load-module module-null-sink sink_name=MySink \
sink_properties=device.description="MySink"
25
ron@linux-4cdz:~/
```

To make the audio connections, open a KiwiSDR client instance in your web browser, such as http://fenu-radio.ddns.net:8073/?f=3965iqz8 , then start Pavucontrol. Open the “Playback” tab and select “My Sink” for

the output of the Web Browser. Start Dream then in the Pavucontrol “Playback” tab select “Built-in Audio Analog Stereo”, or whatever your normal sound card is, as the output for the Dream receiver. In Pavucontrol open the “Recording” tab and select “monitor of My Sink” for the input to the Dream receiver.

In the Dream receiver open Settings/Sound Card/Signal Input/Device and select ALSA:Pulse, then open Settings/Sound Card/Audio Output/Device and select ALSA:Pulse.
In the Dream receiver open Settings/Sound Card/Signal Input/Channel and select I/Q Pos Split.

All things being operational, you should hear the DRM station audio. If a DRM station is not available, you can use the Dream receiver to listen to other modes, just pick one and listen to it.

This video might be more understandable then my notes: