

RE; Rural broadband comments requested,

I would like to thank you for the opportunity to comment on this bold move to consider new spectrum allocation for broadband deployment. I am the President/CEO of a large wireless ISP located in the heart of central Utah, With our many towers we cover over 35 different towns in the central Utah region, over 11,000 square miles. Every bit of it Rural.

We supply broadband Internet access where DSL is either not available or other broadband delivery technologies are cost prohibitive. We have the ability to provide the community with affordable broadband access. Aside from a few instances which I will get to briefly.

I would like to comment further in lower frequency bandwidths to allow more non line of sight use. All though 2.4 does work well the band is rapidly becoming cluttered with various home use devices. It also is being vied for by amateur radio operators and the ISM uses as well. Interference can be a problem.

It would be extremely nice to have a shared band with some protection to the operator in that band, Preferably spectrum shared with the massive amount of wasted spectrum in the Television bands would be ideal as this allows for non line of sight access. Microwave do not pass through trees well and is one of our most troublesome deployment problems to serve the public with broadband access.

Power levels of the actual transmitters should be allowed to quadruple over the current power limit in other ISM bands, this should effectively double the coverage area from a tower. Ideally dynamic power adjustment for effective link management would be the preferred method. Further keeping average signal noise floors and interference to other services to a minimum. New uses of modulation techniques will also dramatically increase spectral efficiency and interference low .

If the FCC should decide to allow additional spectrum, it is my strong belief that there should be some control on the use of these frequency's. Maybe in the form of only X amount of WISP's authorized or licensed to use these new frequency's per given sq mile or alternately a competency test should be given to those individuals who desire to operate in these bands. At any rate there should be some control to protect the bandwidth that would be available and prevent quality of service issues with the general public.

Thankyou for your time

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