

## Official Comments Opposing the T-Mobile and CTIA Petitions Against the Details of the CBRS Band

I am the current owner of a wireless internet service provider (WISP) located in East-Central Illinois and serving an area of approximately 3,600 square miles of rural territory. The largest town located in that service area has an approximate population of 6,000. The part of Illinois we are servicing is very rural with most of our customers being farmers and other rural operators. We feel strongly about our mission of providing the best internet that the rural communities that we serve can get. Most rural communities that we are currently servicing have nothing better than 5 mbps download speeds and some have no other options than to have our service. Beyond Media offers the fastest speeds available to most homes and business that is offered for the most reasonable prices. We are currently able to provide internet packages of 5 mbps download 1 mbps upload for 40 dollars per month, 10 mbps download and 2 mbps upload for 60 dollars per month, and 15 mbps download and 5 mbps upload for 80 dollars per month all with truly unlimited data. We are currently very rapidly expanding within our service area to provide better coverage and higher speeds as well as working on expanding our coverage area to very underserved areas. We currently provide many public and private schools, from grades k-12, with speeds up to 100 mbps download and 50 mbps upload. We are happy to provide 700 customers with internet everyday with speeds ranging from 5 mbps to 125 mbps. Our biggest challenge is being able to provide high speeds to rural homes and increasing our speeds and capabilities to provide more rural businesses faster internet packages while decreasing their monthly expenses. We are currently investing great time and money into deploying LTE equipment on the 3.65 GHz spectrum, as we find that it allows us to increase both our coverage area and our ability to service customers in non-line-of-sight (NLOS) situations. Our biggest problem with deploying new towers, in order to help the communities that are sometimes underserved, is dealing with the lack of available spectrum for the 3.65 GHz band. We are struggling to find the air space available to provide the internet these rural communities so direly need. Other than the LTE in 3.65 GHz, we primarily use the 5Ghz spectrum for all of our backhauls and our customer access equipment located in open rural territory where NLOS equipment is not necessary. This spectrum can be increasingly tight even in a location that we are the only provider. Our company is fortunate to have a large fiber backbone network to support our wireless infrastructure. From various points on this fiber network we deploy 5Ghz backhaul towers to feed our wireless point-to-multipoint(PTMP) network. On these towers, there may not be any other competitors around, but just trying to get enough spectrum to get 300 mbps of throughput can be extremely difficult. As we move into a new age where every consumer is demanding more and more bandwidth, wireless companies, especially ours, are trying to gain the ability to access more and more spectrum that may be specifically reserved for WISPs to use. Even in the 5Ghz space, we increasingly have to deal with home routers and personal point-to-point links using a large piece of the spectrum because this is a free-use band. I would like to see some major improvement on the availability of spectrum reserved or at least available for WISPs to grow and allow higher speeds at a lower cost to rural areas. It is of utmost importance to keep the small local rural internet services local and not allow large corporations to try to improve on something that the local internet provider can do much better. Our company is currently attempting to install new LTE technology into underserved areas that have a 50 percent tree coverage. In these areas 5Ghz LOS (line of sight) equipment will not work due to the rolling elevations and obstruction that LOS systems cannot tolerate. Due to the dire need for available spectrum in the 3700 – 4200 MHz space and the lack of high speed internet in some areas, we have counties coming to us trying to hire us for

hundreds of thousands of dollars to put in this LTE equipment. Unfortunately, the lack of spectrum available to us for the LTE equipment is holding projects like this back because of the fight with the competitors taking the little spectrum that there is available. With more spectrum, we would be able to service counties like this and increase their per home speed from 1-3 mbps download to 5-75 mbps download. If the FCC could actually start providing more spectrum that is lightly licensed for WISPs like ours to use and not allowing every consumer to access a license, then we would finally be able to provide underserved people with high speed internet, increase our download and upload speeds to the home, increase our internet availability for rural businesses in dire need of quality dependable internet, and start decreasing the cost to the consumer while our costs decrease as well. It is definitely not a good idea to allow these licenses to go on auction because the large corporations would always win because they are the ones with the finding to be able to pay outrageous amounts for a license. These licenses need to be distributed in a way that allows the small businesses an equal opportunity to prove themselves as this is the American way. It is the time that local small businesses take priority, and the large monopolies start being stopped for their abusive tactics to ruin competition and force the market into their favors.

Thank you

Warm Regards,

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