



5G MESH Internet Services, LLC  
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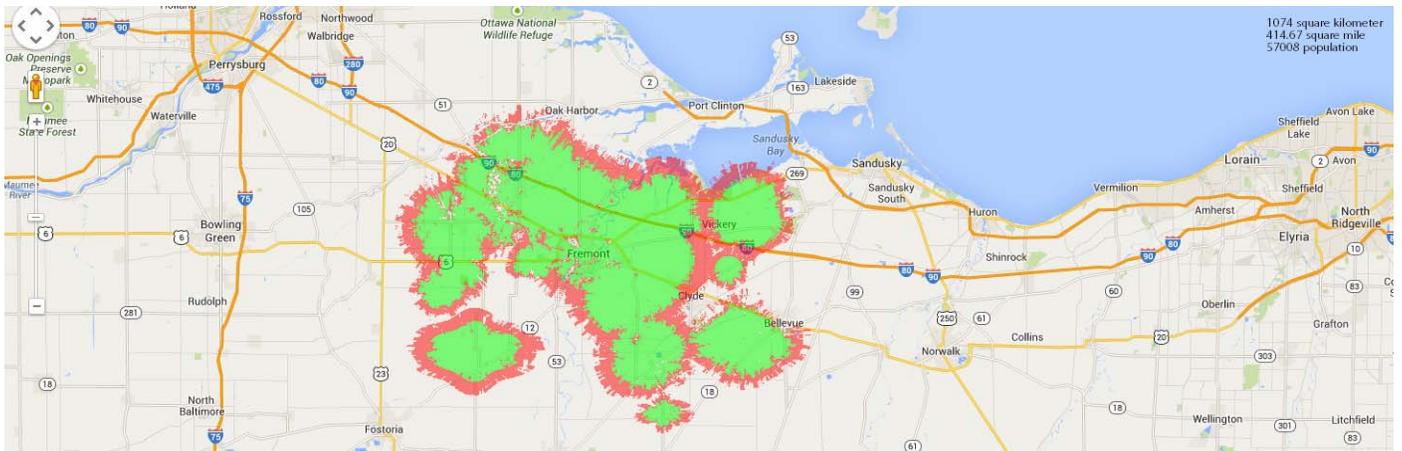
Re: WC Docket No. 10-90 Expression of Interest – Connect America Fund

Marlene H. Dortch, Secretary  
Federal Communications Commission  
445 Twelfth Street, S.W.  
Washington, D.C. 20554

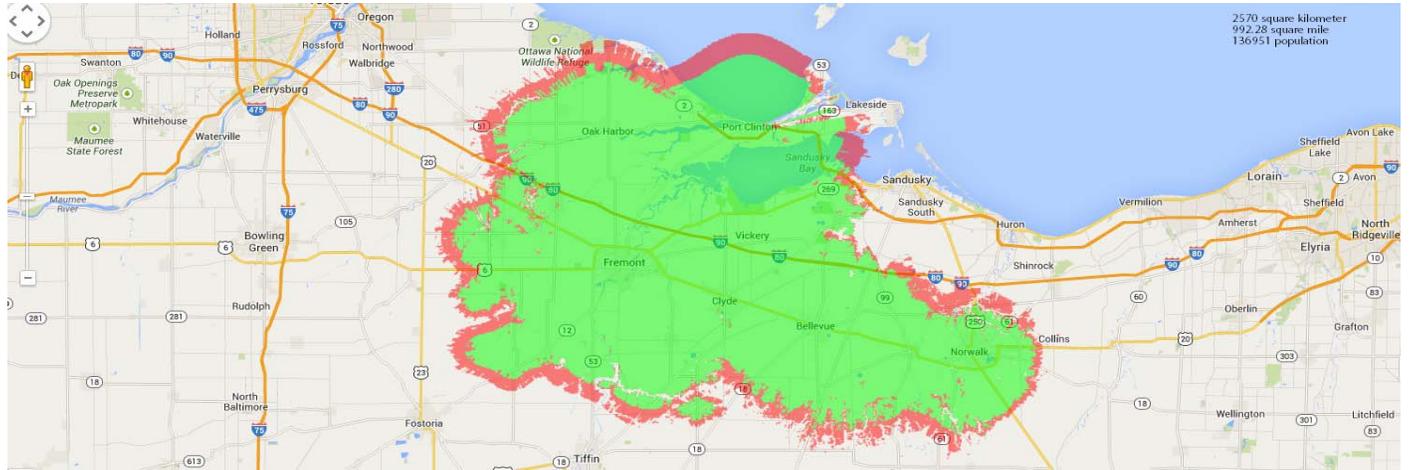
This letter serves as an expression of interest in the FCC’s rural broadband experiments. It is our intent to expand our service area by building out sites we have already acquiring and upgrading current sites. It is our intent to continue to expend this service area and system capacity to rural and farm families who have limited or no access to high speed internet service.

5G MESH Internet Services, LLC located in Fremont, Ohio. We are a WISP (Wireless Internet Service Provider), offering broadband internet service in areas of Sandusky, Ottawa, and Seneca Counties. We are committed to providing high speed internet service at an affordable price. Additionally we provide VOIP telephone service as well as video conferencing.

Our current service area is approximately 1074 square kilometer, 415 square miles with population of 57008 as indicated in the image below:



We currently have 30 additional location that will become access point locations extending our coverage area. With the new sites 5G MESH can provide service to approximately 2570 square kilometer, 992.28 square mile with population of 136951.



Our first goal in the first year is to provide complete coverage for Sandusky County, Ohio for the following census blocks:

- 39143,39143960800,1,0,153.87
- 39143,39143960900,13,0,4279.7
- 39143,39143961000,77,3,60095.96
- 39143,39143961100,14,1,8298.39
- 39143,39143962100,4,0,719.2

Fremont City offices currently using 5G Mesh Internet service includes: Police Department, Fire Department, Municipal Court, Parks Department, Water & Sewer Maintenance, and Water Treatment Department. We also provide support, internet and VOIP services to the Village of Green Springs plus we provide service to the City of Bellevue, Village of Gibsonburg and soon to the Village of Lindsey.

Many families are now enrolling in the Ohio Virtual Academy and K<sup>12</sup> which gives Ohio kids in grades K–12 education alternatives which requires students to have an internet connection. By expanding our service area we can provide high speed internet to more families in the rural communities. Here are just some the service agencies that could provide their services to the rural areas if the proper internet service could be provided;

**Sandusky County Districts:**

- Fremont City Schools District: 9 schools
- Clyde-Green Springs Exempt Village School District: 5 schools
- Gibsonburg Exempt Village School District: 3 schools
- Old Fort Local: 2 schools
- Woodmore Local School District: 2 schools
- Lakota Local School District: 4 schools
- Margretta Local School District: 2 schools
- Bellevue City School District: 5 schools

**Sandusky County Libraries:**

- Birchard Public Library of Sandusky County: Fremont, OH
- Clyde Public Library: Clyde, OH
- Gibsonburg Branch Library: Gibsonburg, OH
- Woodville Branch Library, Woodville, OH

We offer internet packages ranging in speeds from 1 Mbps to 30 Mbps ranging in price from \$29.95-\$110.00 per month. All packages have no monthly data caps or limits and are available for unlimited usage, connections are traffic shaped based on the download speed requested. 5G Mesh does offer higher speed services on request currently the fastest speed that can be delivered is 1GB.

We have worked closely to serve our local City of Fremont Police, Fire, and Water Departments, Fremont Municipal Court and Sandusky County Sheriff Department for video arraignment system. Our experience with first responders has helped us to determine how our services can help them quickly and reliably respond to accidents, severe weather, and other events. 5G Mesh is in the process of rolling out a free city wide WiFi network for the City of Fremont, this model will be deployed in many of the neighboring communities.

We have an agreement with the Cities of Fremont, Green Springs, Gibsonburg and other communities where we have equipment strategically placed on water towers to serve as access points for coverage for the city offices, free city wide WiFi as well as our customers. We also have agreements with farmers placing our equipment on their grain silos to expand our coverage to rural areas and we plan to purchase at least three 180' and one 120' self supporting towers.

For the first year we have projected \$1,202,000 for estimated funding and then annual projection of \$554,000. 5G MESH appreciates that the FCC is allowing providers to submit an Expression of Interest for the rural broadband experiments and would like to thank the FCC for taking this proposed project into consideration.

This is a brief overview of our companies plans, for further information please contact us.

Sincerely,

Sonja Lee