CenturyLink QC

Gretna NBBD Grant Application

CenturyLink QC is part of Lumen Technologies, Inc. (Lumen). Lumen is a global communications, hosting, cloud, and IT services company enabling millions of customers to transform their businesses and lives through innovative technology solutions. Lumen is the 2nd largest U.S. communications provider to global enterprise customers. The company offers network and data systems management, Big Data analytics and IT consulting, and serves customers in more than 60 countries, providing broadband, voice, video, data, and managed services over its 450,000 global route miles of fiber.

For information and services for large business and enterprise customers, see the following links:

<https://www.lumen.com/en-us/home.html>

<https://www.lumen.com/en-us/networking/business-fiber.html>

Biographies of key officers in Lumen can be found at the following link:

<https://news.lumen.com/executive-bios>

Over the last several years, the Lumen has completed numerous residential and business Fiber-To-The-Premise (FTTP) projects company-wide, and has enabled thousands of locations in Nebraska and millions of locations across the country using FTTP.[[1]](#footnote-1) Clearly the company has the expertise and capability to successfully build, operate and maintain FTTP networks.

While Lumen is a global company, it is also a Nebraska company. Lumen provides service throughout the State of Nebraska through subsidiaries that are Eligible Telecommunications Carriers (ETCs); both Qwest Corporation d/b/a CenturyLink QC and United Telephone of the West d/b/a CenturyLink are Nebraska ETCs and have been providers of telecommunications and high-speed internet access in Nebraska for decades, with a telephone network that can connect to more than 500,000 Nebraska residents and businesses.

Lumen employs more than 100 engineers and service technicians dedicated to providing telephone service and internet access in Nebraska. Residents and businesses can order service at Lumen’s website or by calling our call centers using 8YY numbers.

**Type of FTTP Technology:**

CenturyLink QC will deploy a Gigabit Passive Optical Network (GPON) for this project. By nature, FTTP technology is a future proof/scalable technology, and the GPON equipment will support speeds well above 100/20Mbps. The company is committed to remain an industry leading provider of fiber internet services and will deploy GPON FTTP in all grant-awarded locations. The company is also utilizing versions of GPON technology for the areas it was awarded under the FCC’s Rural Digital Opportunity Fund (RDOF) program, as well as its internally funded projects around the country.

* The Gretna project will provide fiber-based internet services and voice services to each location within the project area. The number of locations by project is included in Attachment H, along with the financial information and the amount of the grant request.
* The project will be deployed using GPON technology over an FTTP network. Lumen will use a combination of aerial and buried fiber to reach each location from the existing central office location in each city. Lumen’s existing service personnel will install the customer connections and maintain the network across Nebraska.
* Lumen has built FTTP networks to 2.8 million locations and counting across the country, and to thousands of locations in Nebraska. Lumen, through its ETCs, has been providing services to Nebraska residents and businesses for more than a century and have been offering broadband service for decades.

Lumen will use its national network to transport all traffic to its internet hubs located across the country. Voice and data traffic will each be completed as the traffic requires and connected to the customer. The Lumen network is one of the largest in the world, and the grant program will not be charged for these transport and termination costs.

The construction materials being used in this grant will be top-quality materials from leading manufacturers. The fiber will be from Corning and is expected to last at least 30 years. The electronics, from Adtran and Calix, will have regular software updates and maintenance to extend the life to ten years or more, at which time it will be replaced. CenturyLink QC will be using its own national backbone to carry the traffic for the customers of this project, connecting to the internet hubs around the country for completion of internet searches and connecting to websites for work, education, health care, video streaming and gaming.

Below are links to the primary equipment CenturyLink QC will use in its projects:

<https://www.corning.com/optical-communications/worldwide/en/home/products/fiber.html>

[https://www.adtran.com/amfile/file/download/file/280/product/5/](https://imss91-ctp.trendmicro.com:443/wis/clicktime/v1/query?url=https%3a%2f%2fwww.adtran.com%2famfile%2ffile%2fdownload%2ffile%2f280%2fproduct%2f5%2f&umid=069B65BC-DDA9-F805-AE46-44296C06E502&auth=19120be9529b25014b618505cb01789c5433dae7-6069353c15d8588e57eb84593e020a123dca94ec)

[https://www.adtran.com/media/amasty/amfile/attach/duL2AcanjSSicBps2h5EQVDXqf3QesuZ.pdf](https://imss91-ctp.trendmicro.com:443/wis/clicktime/v1/query?url=https%3a%2f%2fwww.adtran.com%2fmedia%2famasty%2famfile%2fattach%2fduL2AcanjSSicBps2h5EQVDXqf3QesuZ.pdf&umid=5F093E37-DDAA-0E05-AE46-110992DDD374&auth=19120be9529b25014b618505cb01789c5433dae7-62c20a3f59fe8f3b3f8f4eea89f17bca7660cc44)

<https://www.calix.com/platforms/axos/axos-systems/10g_ont_onu.html>

1. 4th Quarter 2021 results presentation, slide 8 chart shows 2.8 million fiber enabled customer locations:

   <https://s24.q4cdn.com/287068338/files/doc_financials/2021/q4/Lumen-4Q21-Earnings-Presentation-Final.pdf> [↑](#footnote-ref-1)