Case Study

Windstream Wholesale

Providing Low-Latency Connections between Data Centers

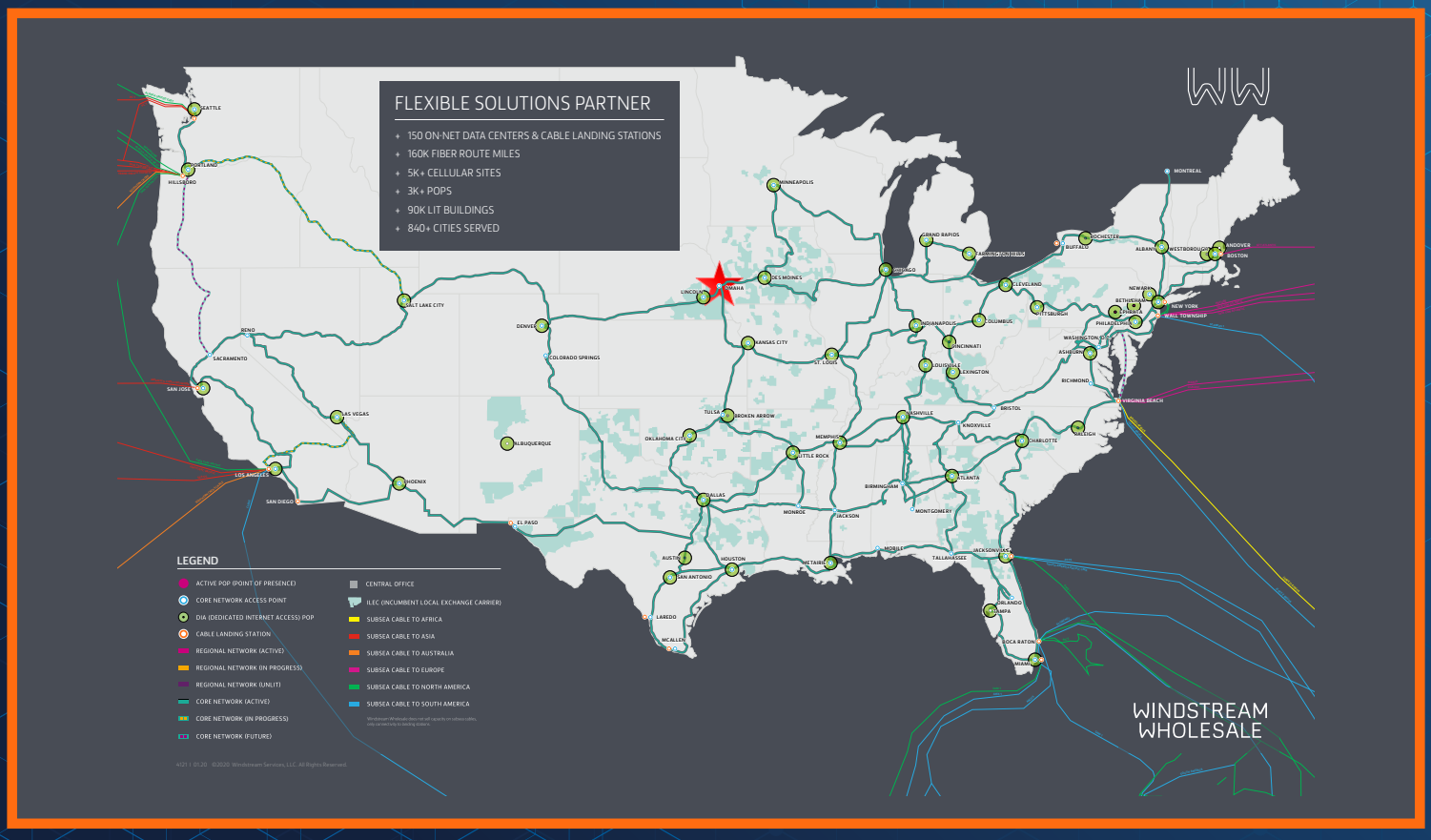
Overview

Windstream Wholesale provides connectivity between all major domestic data centers in the US. Windstream also provides route diversity as well as large Nx100G capacity. Its strategy is to make it easy for customers to interconnect and provide MEF e-line services for lower-speed applications. Windstream has built into over 150 on-net data centers in the US and will continue to do so based on customer requirements.

1623 Farnam owns and operates a state-of-the-art edge interconnection facility in Omaha, Nebraska. This location is at the nexus point of the nation's North/South and East/West fiber routes, making their facility a strategic location for businesses that aim to provide extensive, low-latency connections for their end users. Their strategic location is also in proximity to Google's largest North American cloud node, allowing their customers to take advantage of low-latency connections to operate their cloud-based applications.

"We've seen about a 30 percent increase in data traffic and about a 50 percent increase in voice traffic since [the onset of the Pandemic in] mid-March, and I'm very proud to say that there is no congestion anywhere on our network."

John Nishimoto,
Vice President Strategy and Product Development, Windstream Wholesale



Provided by Windstream Wholesale

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1623 FARNAM

Challenge

Windstream Wholesale's goal is to provide customers with connections between data centers. It benefits them to have a presence in strategic locations that will provide their end users with the most cost-effective connections between data centers. Windstream Wholesale targets verticals such as content/hyperscalers, international and domestic carriers, wireless carriers and cable companies. Growth across all of these sectors is being driven by higher bandwidth requirements, vendor diversity and the demand for data center access. As content/hyperscalers continue to grow, their bandwidth needs skyrocket meaning Windstream Wholesale must be able to supply adequate capacity and fast connections.

Solution

1623 Farnam's facility is located in the center of the U.S. The facility was built at the point of convergence for cable routes that span the country, making it easy for customers to reach any corner of the United States. This is extremely beneficial for Windstream Wholesale, as providing customers with inter-data center connections is a major goal. As bandwidth demands continue to increase, both due to the 2020 COVID-19 pandemic and due to advancing technology, 1623 Farnam will continue to provide low-latency access both to all areas of the U.S. and to the Google Cloud.

From the 1623 Farnam facility, customers can access other data centers and cities across Windstream's advanced optical network with typical round-trip delays (in millisecond):

Examples to reach other major data centers and cloud service providers:

Omaha – Chicago	*12.06 ms*
Omaha – Ashburn VA	*29.57 ms*

Examples to reach international cable systems or cross border into Mexico:

Omaha – Portland OR	*37.73 ms*
Omaha – McAllen TX	*28.83 ms*
Omaha – Wall Township NJ	*29.44 ms*

As Windstream Wholesale undertakes a number of demanding and exciting projects such as the National Converged Optical Network (NCON) and SDN orchestration for design-based and intent-based provisioning, 1623 Farnam's support will remain helpful to its success.