

Case Study

How 1623 Farnum Enables Global Communications and a Gateway to the Cloud



Background

Located in the Central United States, in Omaha, Nebraska, 1623 Farnam is a natural, centralized hub for customers within the city and across surrounding states, providing a meeting point for local, regional and global telecommunications companies that seek a presence in the region. Home to one of the world's largest cloud providers, 1623 Farnam is also host to the most geographically-centered Internet Exchange in the U.S., the **Omaha Internet Exchange (IX)**.

Telia Carrier, which provides IP Transit, Ethernet, managed SD-WAN and cloud connect services, has had a presence at 1623 Farnam for more than seven years. According to Dyn Research's global backbone rankings, Telia Carrier's global Internet backbone, AS1299, is currently ranked number one, and its IP customers account for nearly 60 percent of all Internet routes.

Challenge

For more than two decades, Telia Carrier's global fiber backbone has grown organically without acquisitions. It was the first network to successfully transmit 1 Tb/s in super channels on its U.S. network and recently announced the first real-time transmission of 600Gb/s wavelengths in a live production network. The company enables worldwide connectivity by connecting more than 310 Points of Presence (PoPs) across Europe, North America, Asia, and the Middle East.

Telia Carrier connects internet service providers, mobile operators and universities and supports an ecosystem of cloud applications and gaming companies that use Telia Carrier as essential infrastructure for edge deployments in order to deliver a high-quality user experience to end customers.

Presently, Telia Carrier is experiencing significant growth, and 1623 Farnam is a key component for one of the company's newest projects. Telia Carrier is deploying a new 34 Terabit transmission system connecting Chicago to Denver, going through Omaha, and linking the tech center region and surrounding Denver area. This new route, coming into service Q3 2020, will provide wholesale customers and enterprises high capacity (10/100/400G) Wavelength services, and Ethernet connectivity on a fully diverse path connecting Omaha to other markets regionally.



"We've had a long-term partnership with 1623 Farnam and it has been an extremely successful endeavor for Telia Carrier. 1623 has been a key hub for us, and as a result, we've seen continued growth of our customer base and many opportunities to work with new clients."

Stephen Hartman,
Head of North Americas Region,
Telia Carrier

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Solution

1623 Farnam is the interconnection point for the east-west and north-south routes of the country's largest carriers and provides a hub of secure on-ramps to the world's largest cloud providers. The carrier-neutral edge data center in Omaha, Nebraska is at the nexus between hyperscale cloud providers, carriers and other managed service providers. The highly-connected facility is strategically located in the middle of the U.S., with access to 50 network companies, which have local, regional, national and international reach. Companies can leverage 1623 Farnam's Central U.S. location to peer at the edge with cloud providers, carriers, fiber and wireless network providers, and Fortune 500 enterprises. The secure data center can meet the proximity, low-latency and rapid scalability requirements customers that demand for their data-intensive workloads.

1623 Farnam is the regional leader in network-neutral edge interconnection and is equidistant from the East and West Coasts, offering efficient reach and other key connectivity advantages in today's ultra-competitive marketplace. As the only carrier-neutral data center provider in the region, 1623 Farnam offers fast cross-connects, speeding time-to-market, and infrastructure that is easily adaptable and scalable. The facility also benefits from reliable power sourced from the downtown network grid and a low risk of catastrophic events, with no hurricanes or earthquakes outside of 500-year flood plain.

To support Telia Carrier's new 34 Terabit transmission system connecting Chicago to Denver, which will pass through Omaha, and the associated growing ecosystem of cloud, content and applications, 1623 Farnam is investing \$40 million dollars in new upgrades at their facility. All mechanical and electrical equipment will feature 2N+2 configurations, a redundancy topology providing a high guarantee of availability and reliability of service.



"Located at the nexus point between carriers, hyperscale cloud, and managed service providers, 1623 Farnam's carrier-neutral edge data center provides a huge competitive advantage for companies seeking to lower costs, improve network latency and enhance security."

Todd Cushing,
President, 1623 Farnam