



— CASE STUDY

Novva partners with Zayo to create datacenter of the future

Overview

A group of datacenter industry veterans had a vision for a futuristic datacenter in Utah that could achieve unprecedented innovation and scale. The goal: to become Utah's largest hyperscale, multi-tenant datacenter campus, offering a combination of wholesale and colocation, wrapped in state-of-the-art features and services.

"Whereas this market has been a bit fractured in previous years where it was either built to suit for an anchor tenant, one tenant in a datacenter, or you had one tenant doing a wholesale type deal," says Wes Swenson, Novva founder and CEO. "But when you build scale like this, you can do what we call 'wholocation,' which is wholesale colo. You can do wholesale of really large clients, 5, 10, 15, megawatts in the same building or in the same campus. That's the definition I would give to where the market is moving."

In 2021, Novva achieved their goal, opening a 100-acre campus with 400k square feet built and more than 1.5 million square feet of datacenter space planned with a centralized and secure 200-megawatt substation with N+1 redundancy.

Beyond the sheer capacity of the datacenter are innovative features such as robotic dogs and drones that patrol the facility to monitor security and temperature. The facility has a self-cooling, waterless HVAC system that relies on renewable energy, minimizing the datacenter's use of resources. The buildings feature not just technological innovations, but modern industrial and interior design that reflects Novva's customer-centric, forward-thinking approach.

Yet for all of the bells and whistles of the facilities, at the core of Novva's facilities is Zayo's network.

Innovation meets scale

- Utah's largest master planned hyperscale datacenter campus
- 100 acre Utah campus
- 1.5 million square feet of datacenter space
- 200 MW substation with N+1 redundancy
- Smart monitoring with robotic dogs and drones
- Self-cooling, waterless HVAC
- Fully renewable energy
- 14 inch concrete walls, and more than 3 feet of insulation
- Electromagnetic-pulse-protection paint



The Solution

Zayo Connectivity

Swenson describes a multi-year planning process that starts with core considerations around location, such as a site's safety from weather and environmental threats, the availability of land and power, and, of course, connectivity.

"Zayo's interconnectivity for us is essential for where we sit within Utah. In this case in Utah, one of the main reasons we selected this site is because of Zayo connectivity," Swenson says.

The Novva team worked closely with Zayo over several months to plan the Utah facility. For Novva, Zayo's solution is a diverse four fiber dark fiber ring connecting the datacenter to two major aggregation hubs in Utah. The ring is designed with full diversity, so that the north fiber route starts at Novva's north meet-me room, which connects to the first aggregation point, then connects to the second aggregation point. The ring then returns to Novva's campus on a completely separate south route entering the south meet-me room at Novva's datacenter. In addition to the dark fiber ring, Zayo is delivering 100G dedicated Internet service to support Novva's Utah datacenter.

"When they lay down fiber or aggregation points, they're not designed for minimum adequacy, they're designed for scalability. So they're broad and deep, and then they're highly resilient. And in the real world, that means less downtime. And we rely not only on that resiliency, but because it's broad and deep, it's really low latency. In some key cases they're beating other carriers by 10 to 20% in speed," Swenson says.

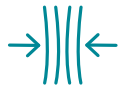
Another important aspect of Zayo's scale: it helps Novva scale with their customers. Unlike many carriers, Zayo's massive network means they have spec inventory available when Novva needs it, allowing them to quickly scale to meet unpredicted events such as a pandemic.

Swenson states, "Zayo's at the top of our list when it comes to connectivity and fiber in the ground to all the major markets that our clients need. Everybody else would be a distant second to Zayo on that infrastructure."



Why Zayo

Why Novva chose Zayo



RESILIENCY.

Broad, deep, diverse routes that allow for resilient network design.



NETWORK SCALE & PLACEMENT.

Massive amount of dark fiber, more than 200 POPs, strategic placement countrywide.



LOW LATENCY.

Network performance that beats others by 10-20% in speed.



SERVICE DELIVERY & RELATIONSHIP.

Longstanding partnerships over multiple datacenter builds.

Find out more about leading edge networks and datacenters.

Learn more about Zayo: zayo.com

Learn more about Novva: novva.com

About Zayo

Zayo Group Holdings, Inc. provides mission-critical bandwidth to the world's most impactful companies, fueling the innovations that are transforming our society. Zayo's 126,000-mile network in North America and Europe includes extensive metro connectivity to thousands of buildings and datacenters. Zayo's communications infrastructure solutions include dark fiber, private data networks, wavelengths, Ethernet, dedicated internet access and datacenter connectivity solutions. Zayo owns and operates a Tier 1 IP backbone and through its CloudLink service, Zayo provides low-latency private connectivity that attaches enterprises to their public cloud environments. Zayo serves wireless and wireline carriers, media, tech, content, finance, healthcare and other large enterprises. For more information, visit zayo.com.