

DATA CENTER OPTIMIZATION FOR 5G AND BEYOND

5G, or 5th generation wireless, is making headlines and picking up momentum coast to coast and across a variety of industries. While 5G represents the speed within a network, latency is a key consideration for companies offering this technology and leveraging it to acquire new customers and boost satisfaction.

To keep up with this technological advancement and provide customers with the best experience even as their user needs change, networks must evolve as fast as the technology does. This can be an expensive and time-consuming challenge. The good news is that there are turnkey solutions available that can make this transition seamless, effective and ready for future growth from both the customer and network engineer's perspective.

ENTER EDGE COMPUTING

Today's technology moves faster and allows end users to do more than ever before. To meet demands, companies leverage edge computing to push data closer to where it needs to be, resulting in lower latency and faster service. This comes into play with everyday activities like navigation and live streaming, but also more complicated endeavors like remote surgery, robotics, autonomous vehicles, smart cities, and drones.

DATA CENTER OPTIMIZATION

With data centers already established and volumes of equipment and cables already installed, the move to edge computing can be a daunting task for any organization. Add to that mergers and acquisitions, legacy equipment, the cost of floor space, changes in how regions are carved up and fewer people than ever to manage it all, edge computing can seem impossible without a well-thought-out design. Structured cabling solutions are the answer for many organizations in this position.

AN EDGE STANDARD

Faced with all of these same challenges, DCS was approached late in 2017 to configure their first edge site. Due to DCS' turnkey approach, this evolved into 17 edge data centers to date. The goal was to have each location designed and installed by the end of 2019 at a month each. DCS moved in quickly to identify the current connectivity, design constraints, and understand how they can leverage existing equipment and floor space. Their approach with this project and others included utilizing DCS' Central Patching Location (CPL) and Mimic Series of patch panels to simplify port identification. The installs so far have exceeded expectations on a tight timeline. Moving forward, DCS is planning additional data centers for this client and others as the edge continues to evolve.

“Not only do we help our clients enable the latest and greatest technologies, we factor in future growth and innovation from the start of any project. We provide cost-effective expansion by incorporating legacy equipment into the new design, providing a flexible connectivity infrastructure without service interruptions.”

A TURNKEY APPROACH

1. Consult with clients about current and future needs.
2. Assess and audit all existing equipment.
3. Leverage existing equipment and floor space.
4. Implement a consistent design for each location to maximize connectivity and help the client establish standards.
5. Plan for growth and determine future infrastructure needs to easily add on when needed.

The end result, with DCS' consultation, products, and solutions plus our installation and documentation services, gives a start-to-finish streamlined implementation. This includes a simplified data center that is specific to the client's needs, efficiently designed, and equipped for future growth. Our structured cabling solutions and innovative approach to design also frees up space, minimizes latency, and simplifies moves, adds, and changes.

For more information about DCS and our turnkey approach to data center optimization and specifics around our industry-leading solutions, please visit datacentersystems.com/connectivity-solutions.

100%

of our products are made in the U.S.A.



Nearly

50%

of the manufacturing team has been with DCS for over 10 years



Over

99%

Quality Inspection First pass yield



WHY DCS?

- 1 Eliminate Layer One issues on switch migrations or installations
- 2 Experts in the current and future needs of data center connectivity
- 3 Deliver a total solution and end-to-end value

FIND OUT HOW DCS' CONNECTIVITY SOLUTIONS CAN IMPROVE YOUR COMPANY'S PERFORMANCE.

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