



consulting

CASE STUDY

DELIVERING A COMPREHENSIVE DATA CENTER BUILD-OUT, WHILE MAINTAINING CONNECTIVITY, FOR A GLOBAL TECHNOLOGY LEADER

A leading global technology company turned to Judge Consulting to complete a complex data center build out and connectivity project. This was crucial for the client as it aimed to expand their data center capacity to support ongoing business growth and increasing infrastructure demands, while avoiding any connectivity disruptions. Judge Consulting ensured that the technical requirements were seamlessly integrated with the client's operational standards, delivering a solution that supported their continued growth and competitiveness.

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THE CHALLENGE:

Seamless Integration of New Racks in Established Data Centers While Maintaining Connectivity

The client required the expansion of four to five existing data centers in the Greater Chicago area. The challenge was to ensure that the physical Layer 1 connectivity was maintained while building out the data center. The client needed the equipment to be seamlessly integrated with the existing infrastructure, requiring precise labeling and connectivity across diverse equipment. The integration of new racks into multiple existing data centers was a key factor in ensuring their systems can scale and continue to support their global operations. Additionally, the project demanded expertise in a range of networking technologies, such as Ethernet, Fiber Optics, Single Mode/Multi-Mode, 10G, 40G, and 100G. Meticulous execution was crucial to avoid potential operational issues that could arise from even minor connectivity errors.



THE SOLUTION:

Deploying an Expert Team for Data Center Build Out

Judge Consulting assembled a dedicated team of four technicians and a project manager to oversee the connectivity work. The team brought expertise in physical Layer 1 connectivity, including optical technologies, rack elevation schematics, and the specific cabling requirements necessary for integration. Working within the client's patching schedule, the team ensured that the new racks were correctly routed and labeled according to the client's predefined standards.

The team conducted thorough assessments of all connection points to ensure alignment with the client's existing infrastructure. Judge's project manager collaborated closely with the client's subject matter experts and project owners, facilitating a smooth execution and addressing any technical challenges that arose.



THE RESULT:

Successful Data Center Expansion without Interruption Allowing for Continued Growth

Judge Consulting successfully delivered the initial project on-time and within the client's specifications, ensuring minimal disruption to ongoing operations. The physical Layer 1 connectivity for all new racks in the targeted data centers was executed with meticulous attention to detail, ensuring optimal performance and integration with the existing infrastructure. Judge provided the client with documentation detailing their build out, patching, and labeling. As the client's growth requires continued expansion of its data center systems, Judge Consulting continues to provide support and expertise.