

Case Study

Data Center Cabling

Efficient Data Center Optimization
Through FS's Flexible Cabinet
Delivery and Collaborative Solutions

Through customized comprehensive data center cabinet cabling solutions, an American ISP company enhanced the overall operational efficiency and reliability of its data center infrastructure.

Efficient Data Center Optimization Through FS's Flexible Cabinet Delivery and Collaborative Solutions

Country

 United States

Industry

 ISP

Network Type

 Horizontal Local Area Network (LAN)

Solutions

 Data Center Cabling

Overview

The client's company is a cloud management IT firm founded in 2006, and headquartered in San Francisco, California. Dedicated to crafting the simplest and most powerful IT solutions for enterprises, it has rapidly expanded its business. With increasing demands for data transmission efficiency, coupled with tight project deadlines and limited space for storage and installation of cabinets, the client has opted to collaborate with FS to upgrade its data center configuration. This partnership aims to achieve an efficient cabinet layout and optimized power management. Through FS's local team's flexible scheduling based on professional solutions and high coordination with the client, the safety and operational flexibility of the client's data center are ensured.

Key Stats

- 60 cabinets and 120 PDU products were sent to Chicago and Silicon Valley sites for quick assembly upon arrival.
- On-site installation service, all cabinets were delivered intact and on schedule.

Highlights

- Flexible scheduling of cabinet delivery cycles, highly collaborative, releasing data center space constraints.
- Wooden crate packaging of cabinets with FS local team oversight ensures intact and timely delivery of heavy cabinets.
- Elaborate assembly plans for FS space-optimized 48U GR600 cabinets ensure versatile application support and effortless installation, adjustment, and management.

Challenges

In the past, due to the heavy weight and large footprint of cabinet products, cabinets were typically delivered as complete orders, with clients assembling them in the data center themselves. This approach limited the flexibility of space turnover within data centers. Moreover, cabinet assembly is complex, requiring consideration of layout within the data center and the practical application of the products, involving numerous details.

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The client not only needed on-site assembly capabilities but also required professional technical teams to devise detailed plans and ensure high-quality cabinet products to meet the nuanced demands of real application scenarios and anticipate future expansion needs. This process involves significant logistical and technical challenges that need to be addressed to ensure the efficiency and adaptability of data center operations.

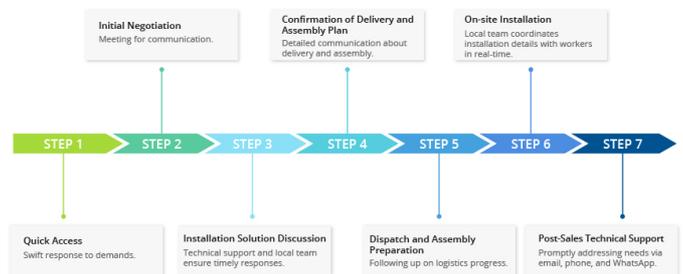
Solutions

With a professional technical team, FS tailors meticulous cabinet installation solutions for the client based on precise calculations of cabinet layout and product applications within data centers. These solutions address the client's nuanced requirements in application scenarios and anticipate potential expansion needs in the future. By focusing on the specific requirements of the client, FS ensures that the on-site installation process is optimized for efficiency and scalability, fostering a robust and adaptable IT infrastructure.

FS offers high-performance multi-use 48U GR600 cabinets, featuring a mesh door design to enhance airflow between the front and rear doors. The cabinets come with lockable front and rear doors, ensuring equipment security. Additionally, the cabinets are equipped with removable and lockable side panels, facilitating easy deployment and ensuring the safe storage of high-density servers and network equipment in IT environments. This design not only prioritizes security but also emphasizes convenience in managing and organizing equipment within data centers.

Flexibly adjusting cabinet delivery schedules based on installation plans, FS ensures timely responses and follow-ups throughout transportation and installation processes. With cabinets securely packaged in wooden crates for protection mitigating the risk of damage

during transportation, FS's local teams collaborate closely with the client to ensure the cabinets are delivered intact and on time. This approach not only enhances the flexibility and cost-effectiveness of cabinet installation and space turnover for the client's data centers but also fosters a seamless and efficient workflow from procurement to deployment.



Results

By employing 48U server cabinets, the client has achieved efficient utilization of data center space. Presently, all 30 cabinets across two data center sites in Silicon Valley and Chicago have been assembled and put into operation. Through flexible scheduling and multi-party coordination, FS has met the client's demands for rack delivery schedules and on-site assembly, helping the client to optimize data center space and ensuring smooth operations within the data center.

FS provides customized comprehensive data center cabinet cabling solutions tailored to the client's specific needs, enhancing the overall operational efficiency and reliability of their data center infrastructure. FS's local technical team offers detailed assembly plans and on-site installation services, ensuring rapid response throughout requirement reception, project delivery, and post-sales stages. This resolves the challenges of space constraints and product handling limitations in the client's data center, ensuring the timely implementation of their upgrade project.



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