READY-TO-INSTALL CABINETS FOR MIDDLE EAST TIER IV DATA CENTER

ANIXTER®

SUMMARY

Customer
IT and business processing outsourcing company

Challenge
Cabinet infrastructure for Tier IV data center

Solution
READY!℠ Cabinet

Results
- Ready-to-install cabinets
- One part number ordering
- Off-site kitting, labeling and preassembly
- Minimal deployment time
- Reduced on-site packaging waste
- Improved process management

>

By using Anixter's READY!℠ Cabinet offering, the entire project— from initial product selection to managing materials at the job site—was deployed quickly and efficiently.

Customer Challenge

Constructing the only Tier IV data center in the Middle East required a deployment strategy that provides efficient material deliveries combined with precise technical and product specifications. Because Tier IV data centers have complex infrastructures and guarantee near continuous uptime for all its services and applications, they are sensitive to installation and design practices. For one of the Middle East's leading information technology and business process outsourcing companies, the data center needed to reliably support the variety of servers and active components its customers needed to power their IT and Web-based applications.

To help design and install the site infrastructure, the company turned to a network integrator to develop a high-performance infrastructure solution and address concerns of limited on-site storage and staging, rigid facility security, diverse components and supplier requirements, and the technical specifications of a Tier IV data center. To confirm the integrity of the products from sourcing to delivery, the network integrator turned to Anixter for enhanced material management for the project.

Project Scope

Over a three-year span, the 20,000-square-foot data center was built out to hold between 600 and 700 cabinets. To make it operational for the first clients, the data center required the installation of 100 cabinets. This initial development phase included products from three manufacturers. The cabinets included a variety of high-performance connectivity components, such as jacks, patch panels, as well as heat dissipaters, power units and ventilation products. A project of this scope required a solution that had to be flexible enough so that each of the cabinets was available on-demand according to the integrator's installation schedule to confirm minimal disruptions to the construction schedule. In order to assemble 100 cabinets and to protect the physical infrastructure products from the risks of theft, loss or damage, the solution had to address the challenges of the limited storage and staging space in the data center.

Products. Technology. Services. Delivered Globally.

Anixter Solution

During the upfront planning and design of the data center, the end-user specified a system that provided flexible solutions for the provision of voice, data, video and building management services within the data center facility. Based on performance and life-cycle requirements, Anixter's technical experts suggested the integrator and end-user consider a data center with a useful life of more than 20 years that supports standards-based high-bandwidth applications to meet future data requirements. To make sure the data center had the foundation to meet these future requirements, Anixter suggested the integrator adhere to internationally recognized design standards, including TIA/EIA-942, TIA/EIA-569A, the TIA/EIA-568-B series of commercial building cabling standards, ISO 11802-2 and EN 50173 2nd Edition. In order to meet the strict requirements for performance and longevity specified by a Tier IV data center, Anixter worked with the integrator to complete a bill of materials that met the end-user's long-term goals.

Tier IV data centers are finely tuned facilities that are designed to provide their users with near continuous uptime. This makes the entire construction and deployment phase critical to the future use and sustainability of the facility. Slight, undetected imperfections in the underlying physical infrastructure can generate unwanted disruptions in the future. Because of this, the integrator needed to keep the facility relatively free of unnecessary debris and product storage during the deployment. Anixter suggested the integrator use its READY!℠ Cabinet offering, which provides a ready-to-install cabinet ordered as one part number delivered directly to the data center floor.

As part of Anixter's READY!℠ Deployment Services, each READY! Cabinet solution arrived to the job site with the right amount of components to be quickly installed in its proper location on the data center floor. By kitting, packaging, labeling and preassembling cabinets at its distribution facility before shipment to the data center, Anixter was able to divert packaging waste from the job site and send it to a recycling center. With less packaging materials and a single READY! Cabinet delivered to the job site, Anixter helped to speed the time to deployment and maximize the usable staging space for the integrator. Because each READY! Cabinet solution received a single part number, Anixter was able to help the integrator realize cost savings through the elimination of invoicing for the ordering and storing of numerous separate infrastructure components.

Project Results

By using Anixter's READY! Cabinet offering, the integrator was able to provide fully customized cabinets that met the data center operator's specifications. By producing significantly less waste and debris at the job site, the network integrator was able to minimize its nonessential tasks and better focus on its core competencies. Anixter's solution helped to streamline the entire process from the initial product selection to the mapping of material deliveries to the integrator's schedule. With the ready-to-install infrastructures provided by Anixter's READY! Deployment Services, the network integrator was able to deliver the Tier IV data center on time and on budget, which allowed the operator to more quickly offer its IT services to its customers.

READY!℠ Deployment Services by Anixter map our distribution and Supply Chain Solutions to the construction or deployment process of any technology project. We combine sourcing, inventory management, kitting, labeling, packaging and deployment services to simplify and address the material management challenges at the job site(s). READY! Deployment Services by Anixter will help you improve the speed to deployment, lower your total cost of deployment and deliver your product specifications as planned.

This project called for:

READY!℠ Cabinet includes a complete rack or cabinet with all of the components delivered as one part number.

Products. Technology. Services. Delivered Globally.