



ABOUT THE COMPANY

Expedient is a cloud and data center infrastructure as a service (IaaS) provider with local operations in Baltimore, MD; Boston, MA; Cleveland, OH; Columbus, OH; Indianapolis, IN; Memphis, TN and Pittsburgh, PA. The company ensures application and data availability.

Background

Reliable data center facilities interconnected with a private multi-gigabit network enables Expedient to deliver premier colocation, cloud computing, network and managed services to enterprise, commercial, education and government organizations. Expedient's approach complements a variety of industry and government compliance requirements, including SOX, PCI DSS and HIPAA, supported by third-party SOC attestation.

Their 11th facility as of this writing is in Dublin, Ohio. This purpose-built facility is designed to accommodate 60,000 square feet across three construction phases which will total 18MW. Initially, phase one includes 29,000 total square feet. It will contain 575 cabinets, using 36 inch raised floor space and 2N dual A/B power feeds. The facility is designed for clients that require a stringent level of availability and security.

"We have engineered this facility to provide the ideal environment for a client looking for space to house just a few racks up to the large enterprise looking for a private suite to act as their own data center," stated Bryan Smith, Senior Vice President and Chief Strategy Officer.

Like most of Expedient's facilities, this one is primarily supported with Vertiv™ infrastructure solutions. This report highlights elements of the power platform.

Case Summary

Solutions:

- Liebert NXL™ UPS
- Liebert PPC PDU
- Liebert Services

Thermal Products/Services

- Liebert DSE™, Liebert DS, Heat Rejection
- Liebert iCOM™ controls

Critical Need: High availability, reliable/robust power, scalable design for future expansion, intelligent connectivity, service and support.

Results:

- Met aggressive timetable
- Achieved reliable power performance in this and other facilities
- Optimized space, service and deployment by leveraging standard power building blocks
- No service interruption due to electrical anomalies
- Successful testing and commission



“Our experience with Vertiv™ technologies and services is exceptional. They not only helped us open the Dublin facility on time, they continue supporting us day in and day out.”

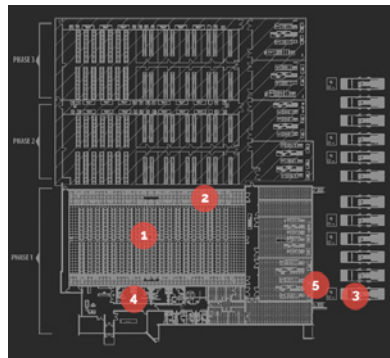
– KEN HILL, SENIOR VICE PRESIDENT AND CHIEF TECHNOLOGY OFFICER, EXPEDIENT

The Situation

Reliable performance and scalable capacity is paramount to Expedient’s success growing its infrastructure and managed services business. For an organization that takes special pride in serving its clients, they put forth and stand behind demanding service level agreements which guarantee high availability, uptime and protection against data loss. This strategic benefit was a key factor as they designed, engineered and constructed their newest central Ohio operation, using a model of success based largely on Liebert® technologies and support. The new facility needed to ensure a growth strategy that enabled their progressive expansion path.

Clients choose Expedient as the technology collaborator for their desired business outcomes because of its ability to engineer and deliver reliability and performance.

Notes Ed Dzurko, Director of Facilities Engineering for Expedient, “Planning and preparation for our Dublin operation centered on our model for a Tier III+ infrastructure with concurrently maintainable dual feeds. We continuously improve our infrastructure and refine our service delivery approach with each new project.”



Dublin construction phases.
Key: 1=data hall, 2=corridor, 3=generators, 4=NOC, 5=equipment room

The Solution

With data centers in multiple locations, Expedient leverages the local expertise within Vertiv’s business partner network. Lead partner Donwil Company is based in Pittsburgh, home of Expedient’s corporate office. From there, Donwil coordinates with other local offices, such as the Columbus, Ohio office, to ensure effective design, delivery, installation and commissioning activities occur according to Expedient’s requirements.

For the Dublin data center, phase one of three included dual power A/B feeds using (2) Liebert NXL 800kVA UPS systems (plans call for two more to follow) and (16) Liebert PPC 225kVA PDUs each configured at 480V in, 208V out. Auxiliary power is provided by multiple diesel generators for reliable, redundant operation that allows concurrent maintainability. Notes Dzurko, “We rely on the Liebert NXL UPS because it is designed to handle all severe power conditions simultaneously and still support 100% of our load with no need for derating.”



One equipment room showing Liebert NXL UPS.

The Results

Expedient leaders appreciate this standard deployment model that enables future expansion in phases as demand increases. This allows them to deploy additional capacity more quickly, while also providing commonality in systems and operations across all facilities. They’ve found this standardization makes new engineering, design, maintenance and operation smoother, faster and more reliable.

Ken Hill, Senior Vice President and Chief Technology Officer at Expedient says it best, “Our experience with Vertiv technologies and services is exceptional. They not only helped us open the Dublin facility on time, they continue supporting us day in and day out with reliable and efficient technologies and service.”

“Since we opened the data center in Dublin, everything has performed as specified. We have the right foundation to service our demanding clients and scale our business into the future,” states Ed Dzurko.

For more information on Vertiv solutions, please visit: VertivCo.com/KnowUPS