Springfield Data Center

Technical Specifications

The Springfield Data Center is a top-tier, high availability data center, serving as a hosting site for law firm data and systems, protecting against business interruptions.

Power

Maximum power protection maintains data security at all times.

Each cabinet is fed from two separate RPPs (remote power panels). Each RPP is fed from separate STS PDUs. Each STS PDU is fed from two UPS systems. The power characteristics at the Springfield facility are described below:

- Utility—Currently fed from one utility substation; provisioned for two in the future.
- UPS—"A" and "B" side UPS with 15-minute minimum battery backup on all UPS systems. The UPS is an isolated redundant system.
- Emergency—Three 2-megawatt diesel generators synchronized to each bus. Generators share a 30,000 gallon underground fuel storage tank and are capable of operating for up to 14 days without refueling.
- Power distribution—216 kVA static switch power distribution units paired "A" and "B," fed from "A" and "B" UPS system.
- Monitoring—A power measurement electrical monitoring system monitors the main distribution to the UPS, from the UPS to the PDU and from the output of the PDU to the rack.

Cooling

Creates an ideal climate for ultimate data storage conditions.

- The chilled water system is set up with N+1 redundancy.
- Air-cooled screw chillers—1,200 tons of cooling capacity.
- Chilled water storage tanks—4,000 – 5,000 gallon tanks for backup.
- CRAC—Downflow units on the computer room floor fed from a chilled water loop; powered from each of the electrical buses.
- The computer room floor is used as the supply plenum.
- Perforated/grated tiles supply front-to-back cooled hardware with air.
- Monitoring and Control— Andover Building Automation Control System.

Leak Detection

Leak detectors are positioned around every CRAC unit under the raised floor and drains.

- Integrated support throughout the facility for immediate protection:
- Zoned smoke detection above and below the raised floor.
- FM200 fire suppression below the raised floor.
- Double interlocked pre-action (dry pipe) sprinkler system.
- Analaser Early Detection/Warning System throughout the computer room.
- This system is monitored both locally and remotely from our Miamisburg data center. The nearest fire department is 2.8 miles from the facility.

Network Carriers

Delivery:

- Staging area for equipment unpacking and setup is provided. Staging area presently would be on the secured shipping dock, which is under closed- circuit camera surveillance. FedEx, UPS and DHL pickup and deliver on an as-needed basis.
- The Springfield data center is a type-1 access for the following carriers: Time Warner Telecom and SBC Communications.
- All other carriers, such as: AT&T, Verizon, MCI, Qwest, Global Crossing, BT, etc., can access the LexisNexis data centers via one of the type-1 carriers listed above. LexisNexis has pre-negotiated agreements in place with each of the type-1 carriers that governs cross-connect charges.
- LexisNexis offers hosting customers a wide variety of Internet speeds ranging from fractional T-1 services through 100 Mbps Internet services.
- These services can be delivered by virtually any of the major Internet Service Providers (ISPs). A combination of ISPs can also be utilized to provide a high-availability Internet solution if required. Public IP addressing is included with all Internet service providers.

Security

Fully staffed building personnel and state-of-the-art security systems protect all aspects of your data storage.

Key Features Include:

- Swipe access with PIN code required to enter main doors to the data center.
- Mantrap revolving door to enter off the lobby.
- Data Center Security Control is staffed 24/7 x 365. Data Center Security Control in Miamisburg monitors Springfield in the event the security guard must leave his post.
- CCTV—some with pan/tilt/zoom. Cameras are recorded for a minimum of 30 days.
- Access is electronically logged for all door openings and closings.
- Escorts are provided for all hosting clients requiring access to secured areas. Clients are signed in and escorted to their space by Systems Operations. If in a caged area, a phone call is made to Systems Operations when ready to be escorted out of the facility. If your area does not have a cage you will require a full escort at all times.
- Facility and parking lot is fully enclosed by a security fencing system.

24/7 Operations Support

On-site staff provides 24/7 remote hands and technical support.

- Fully Managed Services
- Power cycling equipment
- Push a button, toggle a switch, set a dip switch, secure cabling to connectors.
- Observe, describe or report on indicator lights or display information on equipment or consoles.

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