Full-Service Hosting Infrastructure

Systems Liaison maintains a co-location relationship with a top-tier service provider in order to ensure fast, reliable, and secure full-service hosting.

Chicago Data Center Traits

6,000 square feet of raised floor (expandable to 30,000 square feet).

Power

The power systems are equipped with the level of redundancy that guarantees continuous operation. To ensure that the data center facility is always operational all the time, a multi-layer power generation system, using some of the highest-grade equipment, is in place. Conditioned AC power with two independent A and B power buses, respectively, is available. In addition, UPS, battery and diesel generators back up every power system. Unlike some other US data centers, the climate control and security mechanisms are also backed up with redundant power to ensure clean operation during power outages. The UPS systems maintain three hours of battery backup and a 2 MW diesel generator is onsite for longer outages. If there are issues with the diesel generator three hours of battery backup gives ample time to dispatch a portable diesel generator system, if needed.

Environmental

Air control is critical in maintaining fast and efficient performance of our equipment. To create the right environment, the data center is fitted with a comprehensive HVAC system that delivers constant, ideal air conditions, between 68 and 74 degrees Fahrenheit and between 40% and 50% relative humidity at all times. The data center facility HVAC system uses efficient and effective chilled water cooling and not a standard forced/chilled air configuration. HVAC systems maintain a minimum of N+1 redundancy, allowing the data center to provide a constant, cool environment that is foundational to mission-critical equipment and operations.

Security

Visual confirmation and strict sign-in procedures, both conducted by trained security personnel, along with key cards and photo ID verification ensure that only authorized personnel have access to our data center. No customers are allowed in our space unattended and staff is on-site 24/7. In addition, all aspects of the data center are monitored and recorded via color, hi-resolution digital video cameras. All video footage is kept on hand for a period of at least 30 days.

Fire Detection and Suppression

A state-of-the-art fire suppression system constantly monitors the physical environment for smoke, chemicals and other hazardous materials that might spark a fire. The data center uses a dual-interlock pre-action sprinkler system throughout the facility. These pipes are dry-filled with compressed air – until two alarm conditions are reached thereby releasing the valve to charge the system. Water is only released in the area when a sprinkler head has lost its seal, or is actuated, due to heat, and the fire detection system has detected a fire condition. If a head is accidentally knocked off, water does not flow into the system. Any water discharged will be sprinkler-head specific, which will limit the potential for damage caused by over-spray.

Network

General Features

- Fully redundant, enterprise class network, end-to-end is maintained
- **Available Networks** – Steadfast Networks, Abovenet, AT&T, Verizon, Qwest, Level(3), RCN and Atlantic Metro
- **Fiber Diversity** – Dual, fully diverse fiber paths, building entry points and in-building riser
- **Available Networks** – Steadfast Networks, Abovenet, AT&T, Verizon, Qwest, Level(3), RCN and Atlantic Metro
- **Transport Services** – 1.25 Gbit/sec and 10 Gbit/sec DWDM Waves and Layer 2 Transport to Abovenet and TelX/MMR and Equinix
- **Internal Cabling** – Cat6/6a for 10 Gigabit Ethernet, SMF/MMF Available, Overhead Fiber Trays

Internal Network

- Redundant Cisco 6500 (SUP720) core routers/switches
- Cisco 3560-E series distribution layer switches
- Cisco 2950/2960 series aggregation/customer layer switches
- InterNAP FCP for Performance Network route optimization
- 10 Gigabit Ethernet internal backbone
- Backbone Carrier
- Level(3) – Direct 10 GigE (10,000mbit/sec)
- NTT – Direct 10 GigE (10,000mbit/sec)
- nLayer – Direct 10 GigE (10,000mbit/sec)
- Abovenet, AT&T, Verizon, Quest, Level(3), RCN and Atlantic Metro