

Powering AboveNet Communications' Internet Services Exchange

How would you like to be in the business of providing the facilities and services that enable Internet-centric businesses—businesses that generate their revenue from the Internet—to be up and running, non-stop, 24 hours per day, 365 days per year? Your task would be to understand the complex and rapidly changing technology of the Internet; design and build state-of-the-art, secure facilities; and have them operate with such precision that they virtually never go down. This is certainly not the kind of business venture most of us would want to tackle but it is exactly what AboveNet Communications did when it created the world's first Internet Service Exchange® (ISX®). The company's unique and powerful network provides the supporting infrastructure behind many e-commerce companies, Application Service Providers, Internet Service Providers, streaming audio and video Web-sites, and other high bandwidth ventures.

AboveNet's ISX provides Internet-centric companies with state-of-the-art co-location facilities and services, and reliable, high bandwidth Internet connectivity. By co-locating at an AboveNet ISX, Internet-centric businesses can concentrate on their core competencies, which generate revenue and profit, and leave the difficult, expensive and technically intensive areas to AboveNet. Also, the ISX brings Internet-centric businesses together with Internet Service Providers on its lightning-fast network that is "one-hop" from the Internet. This network speeds the delivery of content to end-users while reducing the potential for packet (information) loss.

AboveNet's facilities have become showplaces for the industry. AboveNet's San Jose campus (SJ1), for example, is a worldclass facility that uses the latest technologies available. The structure contains 9,600 square feet of space and houses customers' co-located servers in secure rack and cage spaces called Web Condo® and ISP Condo®. Here, Internet-centric companies receive reliable, scalable bandwidth on-demand, and round-the-clock support services.

With so much at stake, AboveNet's physical plants were designed and built to meet the standards of a painstakingly detailed program for optimal service. One of the major parts of this program is ensuring that clean power is provided to all equipment at all times. In the San Jose facility, the operation is fed by utility power that enters the building and is then conditioned by a Powerware® 9315 Uninterruptible Power System (UPS) from Powerware Corporation (formerly Exide Electronics). The 9315 also provides backup power in the event of a complete utility failure.

The Powerware 9315 UPS, consisting of redundant 500kVA modules, provides power that is unmatched for reliability and availability. The system's unique Powerware Sync Control technology includes a dual distribution bus architecture that increases the availability of protected power at the load to 99.999%. The configuration also allows full maintenance to be performed on either module without the need for an external bypass or removing the load from conditioned power.

customerprofile

*"At the core of our SJ1,
VA1 and NY1 facilities'
redundant power systems
is the Powerware 9315.
It provides the
conditioning and backup
we demand to ensure
our customers have
the cleanest, most reliable
power available
at all times."
said Jeff Monroe,*

*Vice President, Real Estate and
Construction for AboveNet.*

The Powerware 9315 is capable of powering the operation for two hours. AboveNet went one step further and installed a 750-kilowatt generator to feed the UPS in the event of an extended power outage. The generator starts automatically just seconds after detection of a failure of the incoming power. Even if the generator is used, the UPS continues to condition the power. Unconditioned generator power is considered "dirty" and can cause problems with the operation of sensitive equipment. The remaining portion of the power distribution system, including transformers and feeder circuits, is fully redundant.

AboveNet's East Coast Campus consisting of VA1, located near Washington DC, in Vienna, VA and NY1 located in New York City are also backed up by parallel redundant Powerware 9315 UPS modules.



"We design our ISX's to be the most fault tolerant, redundant and maintainable facilities in the industry. This includes state-of-the-art systems for power, HVAC, fire suppression, security and earthquake protection," said Jeff Monroe, Vice President, Real Estate and Construction for AboveNet. "At the core of our SJ1, VA1 and NY1 facilities' redundant power systems is the Powerware® 9315. It provides the conditioning and backup we demand to ensure our customers have the cleanest, most reliable power available at all times."

For Internet-centric companies today, it is reassuring to know that a company like AboveNet has the expertise, facility and service to provide the highest Internet connectivity availability to capitalize on the potential of e-commerce and other high bandwidth applications.

*AboveNet Communications can be reached toll free at 1-888-298-5566 or 408-367-6666.
The address for the company Web site is www.above.net.*

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