Your Cloud Pilots

Ground Crew

Ground Crew Facility & Services

BeckITSystems, Inc. is a leading hosting and managed services provider offering enterprise level solutions to businesses of all sizes. All servers are owned, maintained, and managed in a secure, Tier 3 data center that provides 24X7 network monitoring and maintenance from a fully-staffed Network Operations Center (NOC).

The data center achieved SAS 70 Type II compliance (Statement on Auditing Standards No.70), reflecting a consistent, reliable and secure operating environment to support customers nationwide.

Power

Redundant 4000 AMP, 480-volt electrical feeds power to the data center. This system provides automatic switching between two independent transformers.

Besides a total of one megawatt of redundant UPS power, the facility houses a fully redundant 2,400 AMP, 48V, positive ground DC Telco power plant and distribution system. This system currently powers all fiber providers as well as carriers in the facility.

A fully redundant one megawatt Uninterruptable Power Supply (UPS) system, redundant Master and Emergency System Busses (MSB/ESB) and a 2 Megawatt Diesel Generator system with 3500 gallons of fuel, provides backup power for the facility. UPS power is fed into redundant Power Distribution Units and from there into Remote Power Panels (RPP). Each RPP is monitored to the circuit breaker level to ensure early warning overload protection. Redundant Powerware 500KW UPS System, dual 4-megawatt feeds and transfer switches are included.

Connectivity

The data center is currently home to multiple IP carriers including AT&T, Cogent, Cox, Level 3, MCI/Verizon, Telepacific, Time Warner and XO. The data center is a carrier neutral facility so servers housed in the facility have access to all carriers.

It provides the highest quality and speed of bandwidth for our servers running at 100 MBPS with the ability to bursts to 1000 MBPS using Multiple Redundant Fiber OC3 connections on multiple carriers with private fiber backhaul to major Internet access points.

The data center is a Telco and Optically Neutral facility fed by two separate fiber vaults. All fiber enters the facility via two divergent routes into a secure fiber pop. The seven fiber providers give the redundancy and bandwidth needed for any application.

Security

On-site security is provided with a combination of biometric hand scanners, electronic card control systems, hi-resolution motion sensitive digital video surveillance systems, and on-site personnel.

Access to the facility is granted only after positive identification (both manual and biometric) has been established. Movement throughout the facility is further monitored by usage of electronic card keys. The entire facility is alarmed and monitored with video cameras and off-site alarm monitoring services.
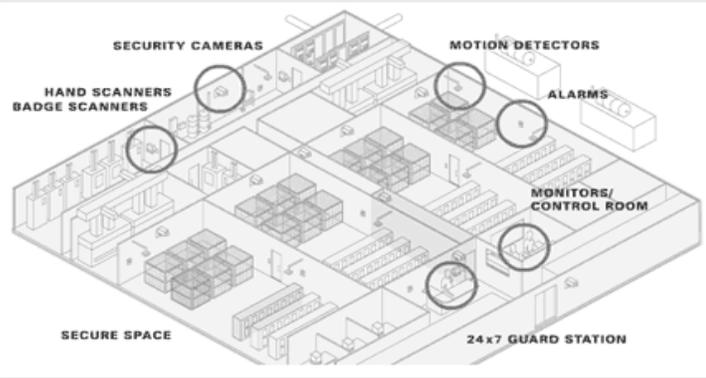
Employees are then required to use the biometric hand scanners and a security code to gain access to the customer service area which is manned 7x24x365.

All equipment entering and leaving the data center is checked for serial numbers and descriptions and verified against the inventory file in the computer system. This hands-on approach to security is much more effective than data centers that allow customers to come and go unsupervised.

Fire Detection & Suppression

Fire detection is provided by a facility-wide Very Early Warning Aspirating Smoke Detection System (VESDA). Each of the 30 CRAC units has its own detection monitor that is also connected to the VESDA system. Monitored both onsite and remotely, the VESDA units are but one piece of the Triple Interlock, Pre-Action fire detection and suppression system.

Data Backup

BeckITSystems backs up all files to Network Attached Storage (NAS) that can take incremental snapshots every 15 minutes. Full images are backed up each week. Disaster recovery is achieved with the ability to virtualize a failed server in the case of a catastrophic failure.

Should the need arise, Help Desk engineers can quickly locate the file that needs to be restored and "drag and drop" the file back to the requested location.

Data Storage & Security

BeckITSystems utilizes highly redundant storage technologies combined with proactive monitoring to insure data availability. Failure of redundant components can be detected and repaired before any interruption in service occurs.

All customer data runs on the physical server with a RAID5 array for speed and reliability. Storage Area Network (SAN) is available upon request. This architecture is redundant in nearly every aspect and allows us to seamlessly add additional capacity as needed without causing downtime to existing customers.

Network Security

Our network security begins with redundant security appliances that provide multi-layer protection from attacks, worms, spyware, viruses, and other forms of malware, creating a firewall that stops attacks before our network. BeckITSystems closely monitors network security to ensure maximum protection and availability of the network and its services. BeckITSystems uses VLAN configuration to separate customers where applicable.

Spam and Virus Protection

BeckITSystems provides world-class anti-virus and anti-spam protection for Servers and PCs with Postini providing 98% or better accuracy in blocking spam and viruses using exclusive Preemptive Email Protection Technology (preEMPT).

Security, Redundancy, Protection

As an integral part of our infrastructure, we provide a resilient, secure, and high performance environment making sure our equipment is redundant and housed in an optimal infrastructure while monitoring every step of the process 24X7.

BeckITSystems® Inc.