Over IP Solutions
for Multiple Data Centers

Enterprise-level IT management solutions that provide centralized control of multiple server rooms at an affordable price.

Industry Focus

Multiple Data Centers

Challenge

Corporations with international branch offices and factories in different locations need to be able to respond fast to mission-critical data center emergencies, whether they are in the same building or across the world. Secure, centralized control of multiple data centers is paramount to increasing IT management efficiency and reducing operational costs while maintaining stable operations.

ATEN Solution

The KVM Over the NET™ range provides advanced, scalable enterprise level solutions for corporations to manage widely distributed, multiple computer installations, offering at-the-rack access to systems from anywhere in the world.

Benefits

- **Remote Access**
- **Real-time Management**
- **Expandable Solution**
- **Centralized Management**
- **Secure, Stable Solution**

The Customer

The customer is a manufacturer of power solutions for buyers in the automotive, medical, and industrial markets. Currently, global corporate headquarters are located in Tucson, Arizona. The customer also operates a network of manufacturing facilities, sales offices and design centers in key markets throughout the world. The customer's IT department, located in the Tucson HQ, supports more than 1,500 users with a staff of less than 20.

The Challenge

Currently operating 500+ servers, including around 25 in each of their facilities around the world, the customer is facing further growth in server numbers in order to support an increasing customer base and the software needed to assist its operations. At its HQ, the customer has a high performance web server that handles its websites, along with multiple serial devices, such as routers, network switches, etc. Therefore, the company needs to have the ability to manage cross-platform servers and devices, while streamlining operations and maintenance.

With a global logistics network, the customer also needs to efficiently manage the data centers in HQ and international locations. In particlar, its overseas design centers need software applications for the R&D process. With the large number of servers, the company needs to have dedicated administrators constantly monitoring the status of each server. The administrators often need to run around the building for administration, troubleshooting and maintenance. Not only are the overhead costs high, but also there is not enough IT staff to efficiently attend to all the servers as needed in a timely manner. In addition, due to large, constant database access traffic, it is crucial for the network to be available and stable at all times.

The Solution

ALTUSEN™
Enterprise KVM Solutions by ATEN

KN4132 / KN4116
Cat 5 KVM Over the NET™
with 1 local and 4 remote user access

CC2000
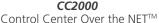Control Center Over the NET™

KH1516
Cat 5 High Density KVM Switch

CL1000
LCD KVM Console

Solution Benefits

• Expandability

The solution supports a 2-level cascade that connects up to 512 servers in a cluster, leaving more room for IT expansion to accommodate the customer's future growth and need for more servers.

• Cat 5 Connectivity, Multiplatform Support

This is a Cat 5 IP-based KVM solution, offering not only the flexibility of a cross-platform environment needed by the customer but also ease of cabling. In addition, unlike traditional KVM cables, Cat 5 supports a longer distance setup and better signal transfer.
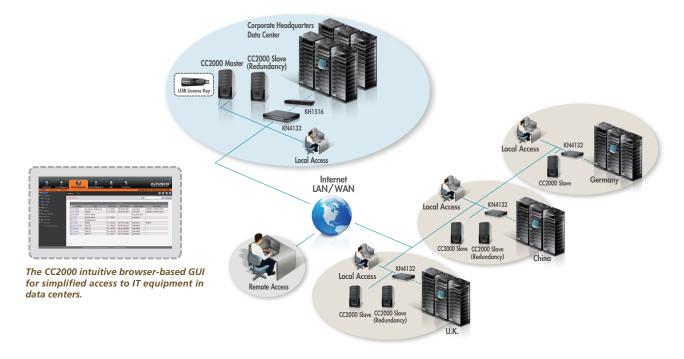
• Centralized Management:

The over-IP capability allows administrators at the Tucson headquarters to remotely monitor and access servers at the customer's international sites through an Internet browser. The CC2000 means that HQ administrators can access multiple over-IP KVM devices through a single IP address, allowing them to easily provide support to data centers located in remote offices – creating a secure centralized IT management platform for the company that facilitates the sharing of expertise.

• Remote Access, Real-time Management

The KN4132/KN4116 provides access for 4 remote users, allowing for simultaneous server maintenance and increased efficiency in both day-to-day and critical operations. Furthermore, the customer found that the solution also reduced the overheads that were required to manage the servers – even with the lower overhead count, the current number of administrators can effectively monitor and troubleshoot servers in real-time with minimal delays.

• Stability

The dual NIC support from KN4132/KN4116 guarantees that if one network interface has failed, there is a second network interface immediately available as a viable replacement to ensure the continuous stability and consistency of the network flow. This backup support also gives administrators at the Tucson headquarters more time to troubleshoot the failing NIC without affecting global business operations. The CC2000 also has enhanced reliability based on a redundant slave in case of problems with the CC2000 master server.

The CC2000 intuitive browser-based GUI for simplified access to IT equipment in data centers.

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