ATEN Data Center Management Solution Helps TV Company Effectively Save on IT Costs and Boost Overall Performance

Customer: YangZhou Broadcasting Television Network CO., LTD.

YangZhou Broadcasting Television Network CO., Ltd. (YZBTN) is a joint venture formed by Jiangsu Broadcasting Television Information & Net CO., Ltd. and YangZhou Broadcast & Television Station. Business activities include the provision of broadcast television, digital TV, Internet, video surveillance and video conferencing services. YZBTN was established in 2002 and is dedicated to the promotion and application of innovative technologies. YZBTN's network coverage encompasses Yangzhou City, providing Internet access to over 50% of residents as well as broadband digital TV access to 98.5% of residents.

The Challenge

- Continued expansion of data center equipment
- Reduce costs, save space, and improve management efficiency
- Remote management and out-of-band control ability to ensure continuous operation of data center services
- Effective centralized management of all data center devices

Solution

- **KN4132** 32-port KVM Over the NET™
- **KA7170** USB KVM Adapter Cable
- **CS1758** 8-port PS/2-USB KVM Switch
- **CS1716** 16-port USB KVM Switch
- **KL1100** Dual-Rail PS/2-USB LCD Console
- **CC2000** Control Center Over the NET™ Management Software

Benefits

- Remote management of all servers in a simple and convenient manner
- Significantly reduces management costs and maintenance time; saves 5% of total IT costs and 50% of traffic time
- The Dual-Rail design of the LCD console and cat 5 cable connection used by KN4132 reduces the server room footprint by nearly 20%
- Management software provides convenient and centralized access and management of all devices

The Challenge

Reduce IT costs, ensure high expandability and efficient infrastructure management

Mr. Yeh, manager of YZBTN's Network Operations Department, indicated that all of the investments in broadcasting and television in the Yangzhou region are determined at the provincial government level. As fixed networks have been developed to a county-level, the amount of data center equipment will continuously grow over the next two to three years. Installation will take time and ultimately all the equipment will be consolidated into a centralized management system, which will involve a lot of management effort. IT costs must also be kept under control without compromising on management efficiency.

Success Story: YangZhou Broadcasting Television Network CO., LTD.

Solution

Combines digital and analog KVM Switches, and installs centralized remote management software to effectively control 200 servers

KN4132
KVM Over the NET™
32 ports, 1 local and 4 remote user access

CS1758
8-Port PS/2-USB KVM Switch

CS1716
16-PortUSB KVM Switch

KL1100
Dual Rail PS/2-USB LCD Console

CC2000
Control Center Over the NET™

YZBTN's data center currently consists of 200 servers and the number is continuously growing. To ensure stable system operation and non-stop service, remote management capability is required to allow IT administrators to monitor and control all data center servers over the network from anywhere. Out-of-band control needs to be provided as well, including support for external modems. When the network is down, the modem will allow BIOS-level troubleshooting over the phone line. This made it essential to adopt Over-IP enabled digital KVM switch.

"Based on the available budget, ATEN provided a solution combining both digital and analog KVM switches with exceptional price performance. The KN4132 KVM Over the NET™ 32-port remote server management solution cascading to multiple CS1758 and CS1716 KVM switches allows for effective control over the numerous servers in the data center, "says Yeh.

Similar to most data centers, YZBTN also has problems related to limited rack space and a need to easily manage all the equipment from a single user interface. To maximize space in the data center, the ATEN KL1100 LCD Console integrates a KVM console with an LCD monitor in dual rail housing and takes up less than 1U of rack space. The special dual rail design allows the keyboard to "hide away" when not in use, while the LCD monitor reclines against the rack to enable continuous monitoring of servers. With the installation of CC2000 Control Center Over the NET™ management software, IT administrator can now use a single portal, single sign-on and even single IP address to manage all of the ATEN KVM devices.

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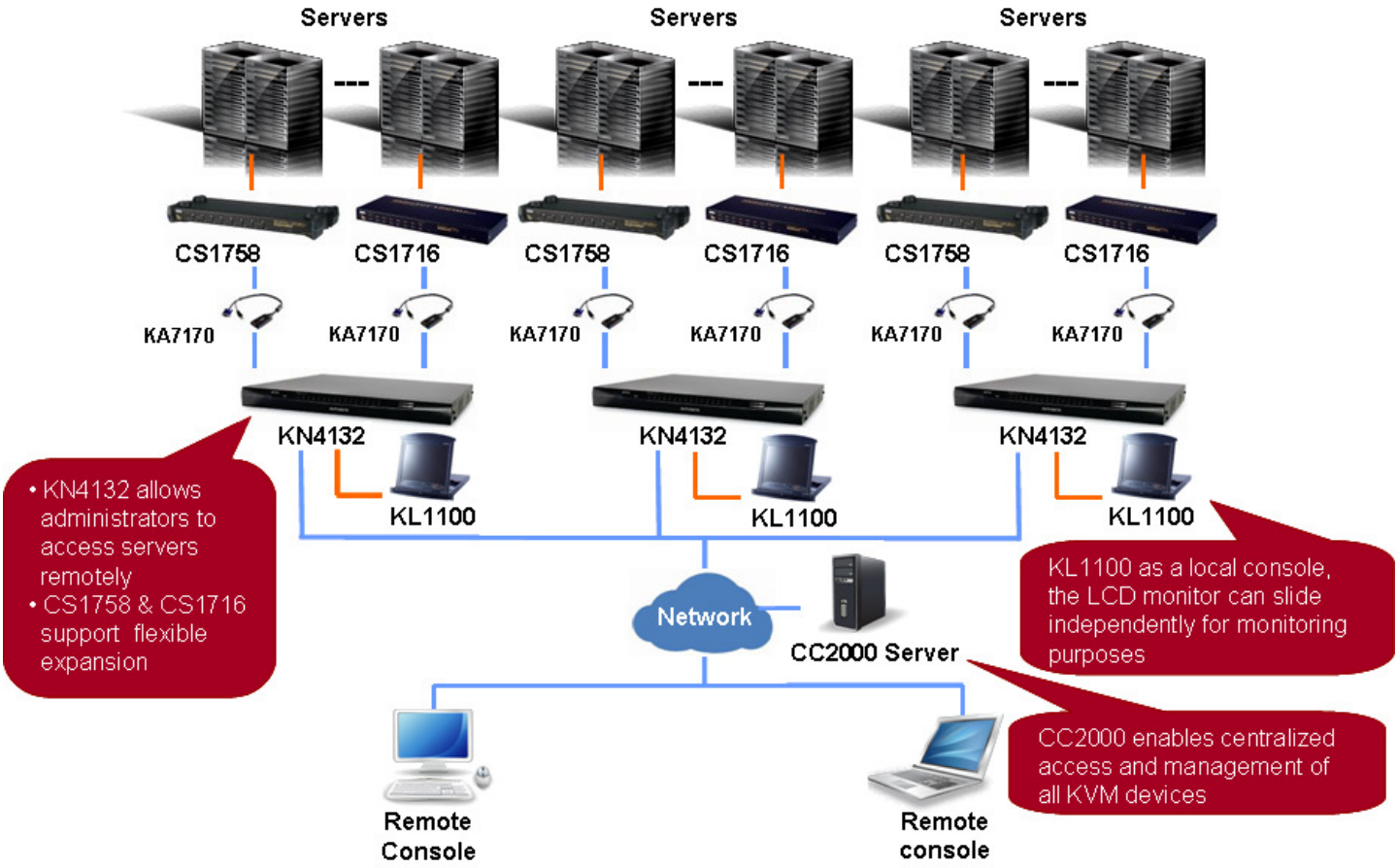
Solution Diagram



Benefits

Effectively reduces costs, saves space and increases overall performance

YZBTN's implementation of the ATEN solution achieved significant improvements: around 5% cost saving mainly achieved from the major improvements in management efficiency; the convenience offered by remote management successfully reduced IT administrators' time and costs for traveling between data center and office by up to 50%; in addition to the rack space savings achieved by KL1100, the Cat 5 cable connection used by KN4132 made cabling easier and reduced the server room footprint by nearly 20%.

Future

"After using the ATEN solution for some time we have come to really appreciate the comfort and convenience offered by remote management. The convenient and cost-effective remote centralized access offered by CC2000, as well as KL1100's dual-rail design, really simplified system management. The combination of KN4132 and CS1758/CS1716 also provided a reliable, safe and easily expandable long-term solution. I hope that ATEN will continue to assist YZBTN to strengthen our remote management capabilities so we can provide an even greater range of high quality services. If the budget is available, we will gradually upgrade to a fully digital KVM solution. There are many other advanced ATEN solutions that we are now taking into consideration for future installation, including the smart PDU remote power management solution," says Yeh.