#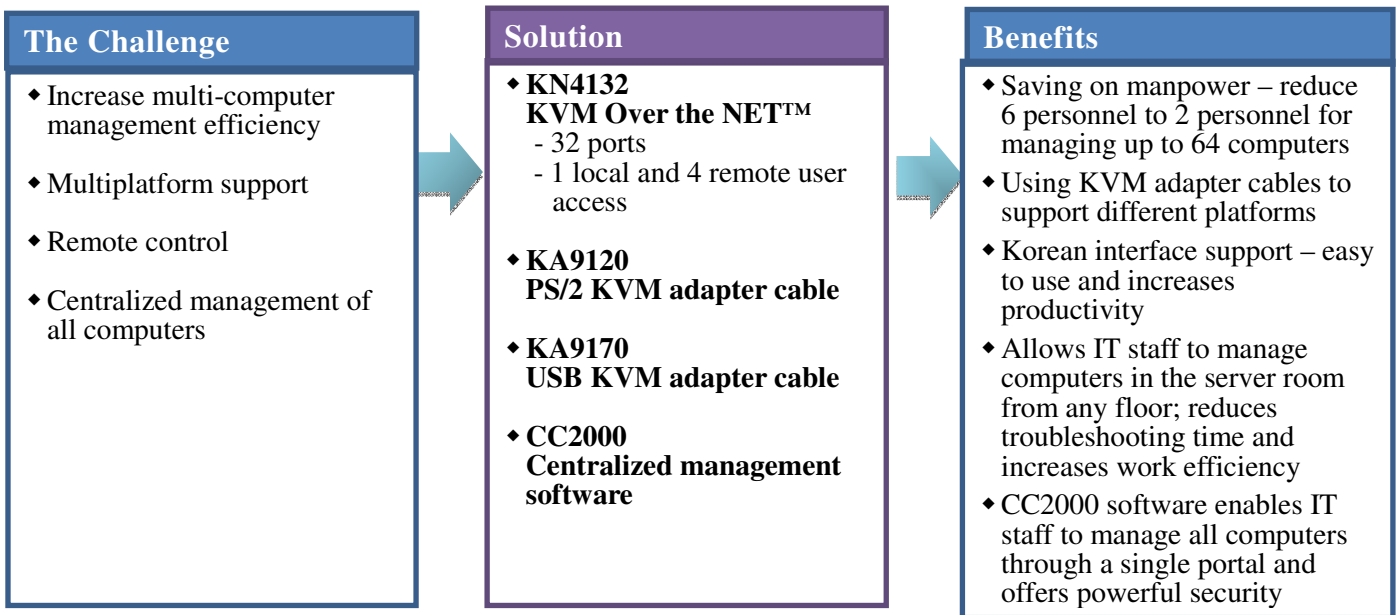 Remotely Manage the Whole Server Room and Improve Work Efficiency with ATEN's KVM Over the NET^{TM} and CC2000 Centralized Management Software

Customer: KESCO (Korea Electrical Safety Corporation)

http://www.kesco.or.kr

KESCO

KESCO (Korea Electrical Safety Corporation) is a Korean pubic company that provides safety advice about how to avoid disasters caused by electricity. The company engages in legal inspections, checkups, research, technology development, and promotional activities to prevent disasters caused by electricity. KESCO is based in Seoul with 13 branch offices and 50 local offices.

The Challenge	Solution	Benefits
◆ Increase multi-computer management efficiency ◆ Multiplatform support ◆ Remote control ◆ Centralized management of all computers	◆ **KN4132** **KVM Over the NET™** - 32 ports - 1 local and 4 remote user access ◆ **KA9120** **PS/2 KVM adapter cable** ◆ **KA9170** **USB KVM adapter cable** ◆ **CC2000** **Centralized management software**	◆ Saving on manpower – reduce 6 personnel to 2 personnel for managing up to 64 computers ◆ Using KVM adapter cables to support different platforms ◆ Korean interface support – easy to use and increases productivity ◆ Allows IT staff to manage computers in the server room from any floor; reduces troubleshooting time and increases work efficiency ◆ CC2000 software enables IT staff to manage all computers through a single portal and offers powerful security

The Challenge

Increase multi-computer management efficiency

The company has a sophisticated server room environment. Each rack is managed by one IT staff member, and the problem they're facing is that they can not simultaneously manage computers in multiple racks. When problems occur, they can only access a specific computer from the local console; therefore KESCO needs a solution that can save on management costs and increase multiple computer management efficiency.

Multiplatform support

The company's server room has several different computer platforms and multiple operating systems such as Windows, Solaris and Linux. KESCO needs to solve the compatibility problems between different platforms and lower the installation complexity.

Remote control

All the company's computers are located in the server room on the 5th floor, and the IT staff office is located on the 4th floor. The IT staff must enter the server room to confirm computer status when needed. Computer management is therefore very inconvenient. KESCO needs a solution that supports remote control abilities to increase computer management efficiency.

Centralized management of all computers

For remote management, computers are being accessed and controlled through the web browser. Since there is a large amount of IT equipment and computers in the server room, KESCO needs a secure centralized management solution, helping IT staff to access all the connected computers through a single portal and at the same time configure user authentication to enhance security.

Solution

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

KA9120
PS/2 KVM Adapter Cable

KA9130
Sun Legacy
KVM Adapter Cable

CC2000 Control Center
Over the NET™
Management software

The company's server room is located on the 5th floor and has a total of 64 computers. In addition to the server room on-site management personnel, the manager or IT staffs on the 4th floor sometimes also have to remotely connect to a specific computer to monitor the operating status. After going through careful evaluation and considerations, KESCO decided to replace the sever room's existing older type analog KVM switches, and purchase 2 of ATEN's new generation **KN4132 KVM Over the NET™** KVM switches that support remote management functions, along with **60 KA9120 PS/2 KVM adapter cables** and **2 KA9130 Sun Legacy KVM adapter cables.** In addition, in order to consolidate the management of all computers and increase security, they also adopted the **CC2000 Management Software**. IT staff can now use a single portal, single sign-on and even single IP address to manage all of the computers connected to the KN4132. CC2000 even provides powerful security protection features, including internal and external authentication. IT staff can also configure user and group permissions for computer access and control.

Benefits

By connecting 64 computers to the two KN4132 KVM Over the NET™, on-site management personnel in the 5th floor server room can directly use the local console to manage computers. Furthermore, the IT staff in the 4th floor office can remotely access computers in the server room by using the computers at their desks through an internet connection. Before using ATEN's Over the NET™ solution, the company needed to have 5 to 6 IT staff to manage all the computers. Now, they only need 1 to 2 staff to manage 64 computers, and therefore effectively save on management costs. The ATEN Over the NET™ solution also supports a Korean language GUI interface. Not only is it convenient to use, it can also increase productivity.
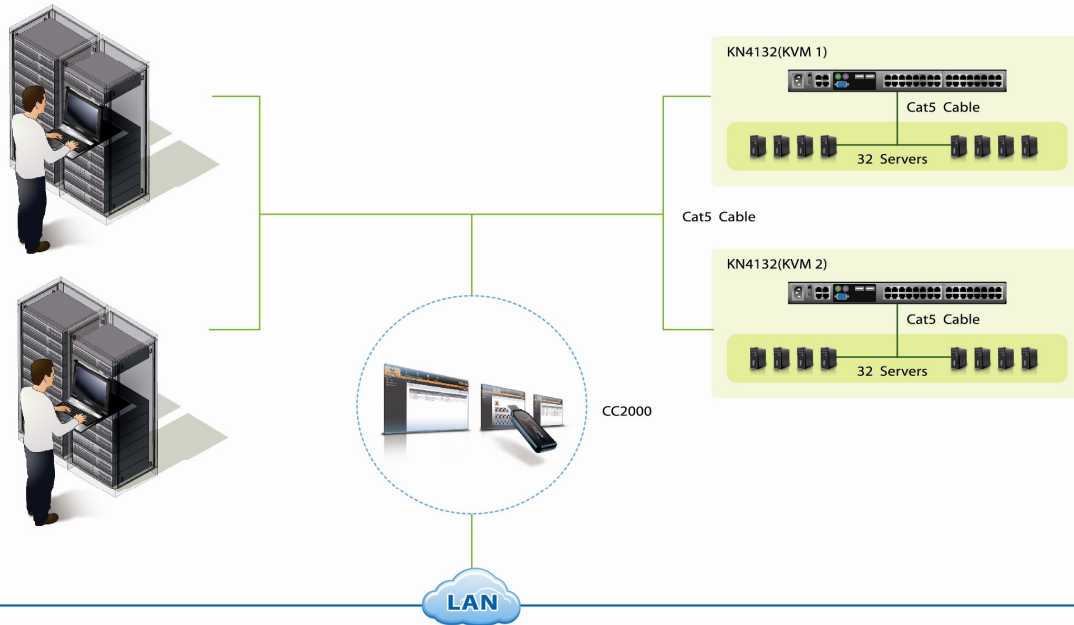
When KESCO adopted the new generation KVM Over the NET™ to replace old analog KVM switches, they only needed to select the suitable KVM adapter cables to support multiplatform operation. Also, compared to the traditional cables used by analog KVM switches, KVM Over the NET™ uses Cat 5 cables. Only one single cable is required to provide complete KVM connection ability, reducing complicated installation processes, and effectively saving rack space.

In the past, IT staff has to enter the server room to confirm the computers' status. After installing KVM Over the NET™, even if they're on a different floor, they can perform remote computer access

through a web browser, vastly increasing work efficiency and convenience for computer management. Through the integration of the CC2000 management software, IT staff does not have to go through every KVM Over the NET™ to access the connected computers; instead, they can easily manage all computers from a single portal, and enhance user authentication management at the same time, ensuring the security of the overall IT infrastructure.

Solution Architecture

Local-Server Room (5F)

KN4132(KVM 1)

Cat5 Cable

32 Servers

Cat5 Cable

KN4132(KVM 2)

Cat5 Cable

32 Servers

CC2000

LAN

Remote-Office (4F)

Future

KESCO indicated that compared to traditional analog KVM switches, ATEN KVM Over the NET™ provides more advantages, including convenient operation, increased work efficiency and reduced management costs. For future server room expansion, ATEN KVM products will be the company's first choice.