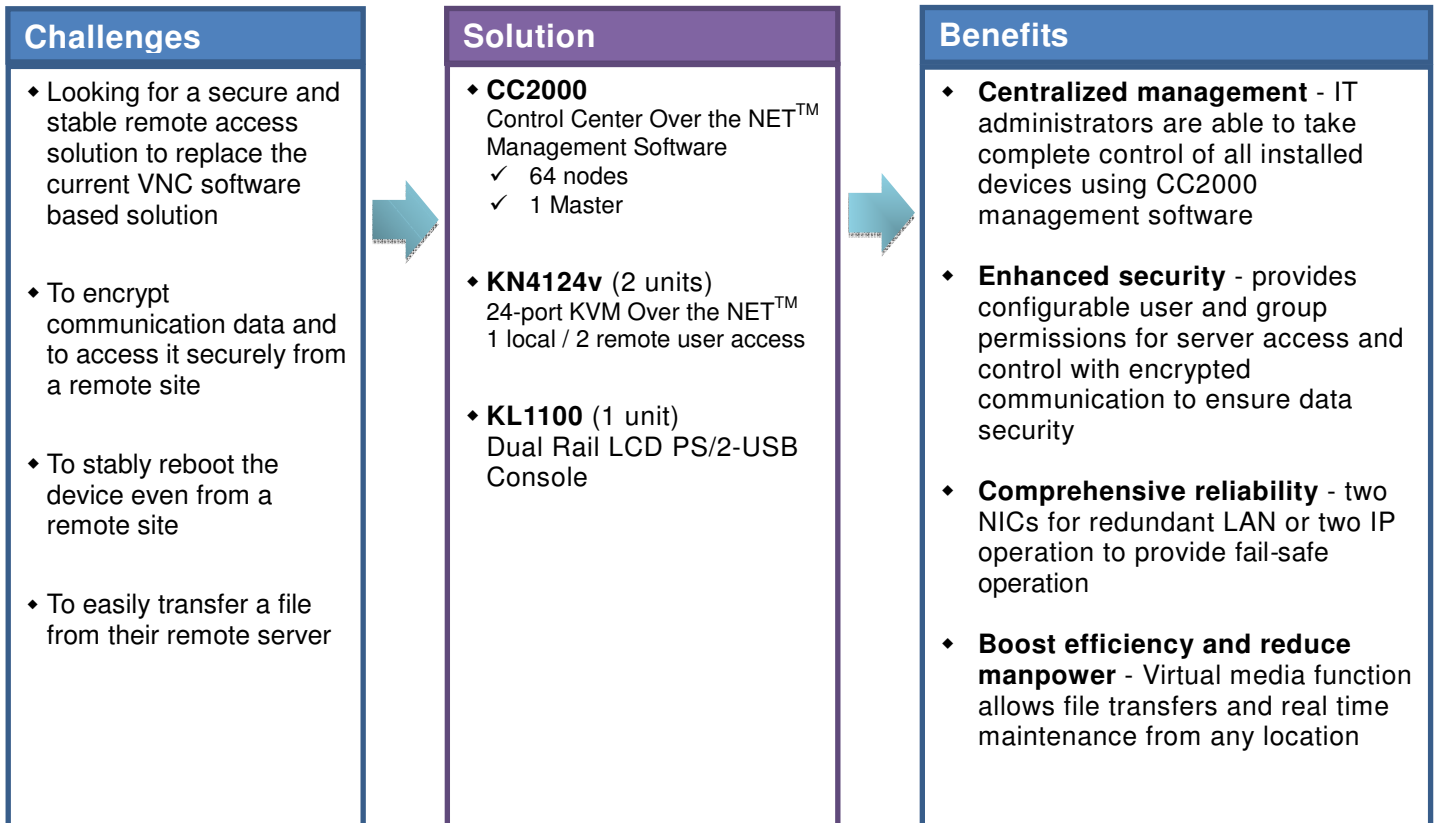


JDS Installs ATEN's Centralized Remote Management Solution to Create an Efficient and Secured Working Environment

Company: Japan Digital Serve Corporation



Japan Digital Serve Corporation (JDS) was established in 2000 to support the digitization of cable TV. In recent years, they have been making a strong effort to provide advanced services for cable TV companies throughout Japan. In 2010, they initiated the "Cable Gate Service" to create and operate a mobile site. In 2011, JDS used cloud computing to offer an "Integrated Cloud Service". By supporting cable TV companies in various aspects, JDS enriches the digital multimedia experience of service subscribers.



↓ Challenges

JDS needs a solution for secure remote server access and convenient file transfer



Lobby in JDS

JDS has invested heavily in equipment to build infrastructure that enables cable TV operators to introduce digital broadcasting services in the most efficient way. In order to offer stable services, each device has its own server for the operation control and status monitoring. All the servers are located in a server room, and connect to the office via a VPN line. A KVM switch was applied to consolidate the consoles in the server room, but the KVM switch did not support remote access. When there is an urgent problem, it was solved remotely by using VNC software installed in each server.

Mr. Funato, an assistant manager of JDS service operation dept., had some concerns about the current operation. First of all was the security issue; data transferred through VNC was not encrypted. Secondly, they could not continue their operation by software based remote access when the session was cut off. Besides, they had to go down to the server room to solve the problem if they failed to reboot the devices

from the remote site. Furthermore, they are not able to download log files through VNC; it is very inconvenient for them to obtain the files by using a FTP server or transferring files by Web mail.

Solution



CC2000
Control Center Over the NET™
Management Software



KN4124v
24-port KVM over the NET™
– 1 local / 2 remote user access

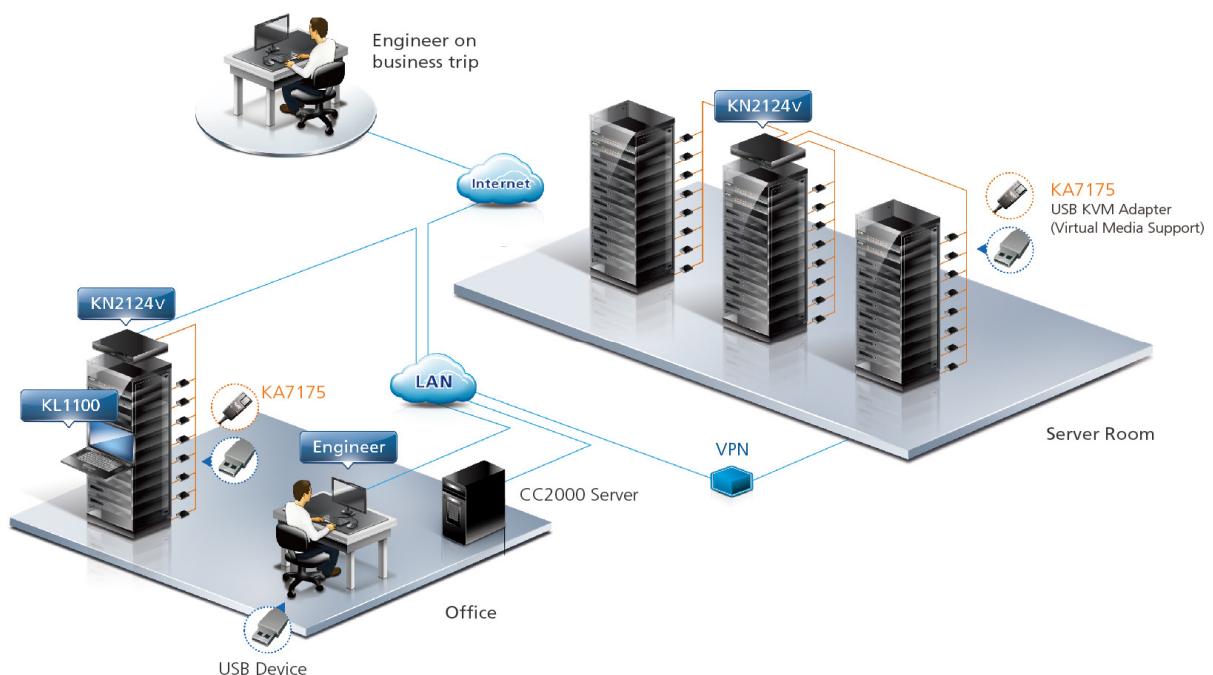


KL1100
Dual Rail LCD PS/2-USB
Console

Since the IP-KVM could solve all their problems in terms of security and stability of remote management, Mr. Funato had decided to install a IP-KVM switch when the old KVM switch was not working and needed to be replaced. During his search for new products, he found that ATEN KN2124v KVM Over the NET™ could fully meet their needs.

ATEN KN4124v comes with two built in NICs, which allows configuring dual IP and assigning different IP addresses for smooth, uninterrupted access management of all the devices. For data security, SSL 128-bit data encryption technology is used to ensure secure data transmission, and configurable user and group permissions for server access and control is available. Moreover, it provides Virtual Media support to connect a remote USB server to a local PC. The local computer can then transfer the log files from the remote server just as if it were physically connected to the computer's USB port. The features above are the reasons why JDS decided to choose the KN4124v.

In addition to the IP-based KVM Switch, JDS also deployed the CC2000 Control Center Over the NET™ management software that could consolidate multiple KN switches. Once administrators sign up the CC2000 server, they can access KN4124vs installed at both their office and server room. Even if they add another KN4124v in the future, they can still have the access to all the KVMs via CC2000. In addition, JDS also adopted 1 unit of LCD console- KL1100 to connect to the KN4124v at the office for on-site control.



Benefits

Improves remote access and security level

Replacing the VNC software based solution with ATEN KVM products not only helps JDS increase their operational efficiency with remote access management, but also improves stability and security levels. JDS is able to use the KN4124v to assign user accounts to administrators, users and their subcontracting companies, and configure the access permission of each user on a per-port basis. Port access permission is customized to avoid unauthorized operation. The installation of ATEN products improved the “security” of their remote access, solved their problems and offered a secured working environment.



Monitoring the status on the LCD module while the keyboard module of LCD console KL1100 slides back to the rack. KL1100 is installed on the top and the device below is the KN4124v KVM Over the NET.

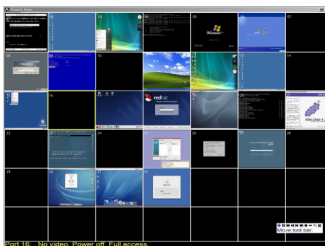
Besides, a unique feature called Panel Array Mode™ provided by ATEN KN series product is highly appreciated by the users of another department in JDS. The “Panel Array Mode™” allows users to monitor their system by simultaneously displaying the status of all the servers on a large screen. They can notice the status change on the screen in one glance in order to deal with the problem immediately, a value added function that offers a benefit far beyond their expectations.

The administrators also enjoy using the space-saving LCD console. The KL1100 has the functions required for operation at a local site, and its lightweight housing design makes installation easier. With the Dual Rail design, the keyboard can be pushed back into the housing and out of the way when not in use, while the LCD screen can be rotated up to the rack for convenient monitoring of server operation, as in the picture on the left.

Future

They plan to utilize CC2000 further in the future.

The CC2000 not only consolidates the management of Over the NET series devices but also printers and firewall devices by using a browser-based interface. Mr. Funato said, “A lot of broadcasting devices use such an interface for management. The CC2000 management software allows the user to control all the connected devices through a single portal which makes the operation much easier and more efficient. We will make good use of this software to add new devices to the installation in the future.”



The Panel Array Mode™ allows viewing the output of multiple ports simultaneously on the same screen. It is suitable for monitoring since it's easy to see any status change from a single screen