Enhance productivity with remote access control and simultaneous monitoring of multiple systems

Overview: *LCD panel manufacturer*

L Company is one of the leading LCD panel companies, which has several plants across the world including manufacturing plants and module assembly plants. To sustain competitive advantages in the technology intensive and capital intensive industry, L Company keeps on investing tremendous capital in building next generation plants.

↘ The Challenge

The production equipment is extremely expensive and requires 3-shift engineers for full time operation. Two engineers are involved in handling the control system for individual equipment; one in Fab clean room doing field operation and the other one in the control room doing remote monitoring. The company, by using traditional KVM extender and Fiber extender, met the following challenges:
(1) can not use the existing CAT5e/6 cabling and the TCP/IP network; (2) supervisors can not remotely access over the network; (3) no priority control of remote and local operations; (4) product and installation are costly; (5) minimize space requirements and maximize personnel efficiency; (6) GUI is not web-based and has limited functionality.

L Company is seeking for an Over-IP KVM solution to increase the productivity, manageability and safety.
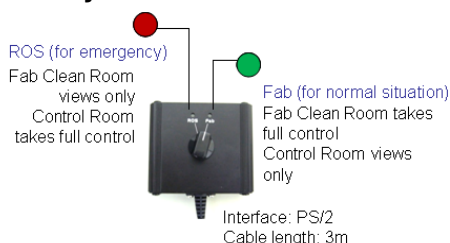
↘ ATEN Solution

CN8000 x 2000+
KVM on the NET™

ATEN CN8000 is a control unit that provides "over-IP" capability to KVM that does not have built in over-IP functionality. It allows operators to monitor and access their computers from remote locations using a browser-based Windows Client or Java Applet, or with AP Windows and Java application programs.
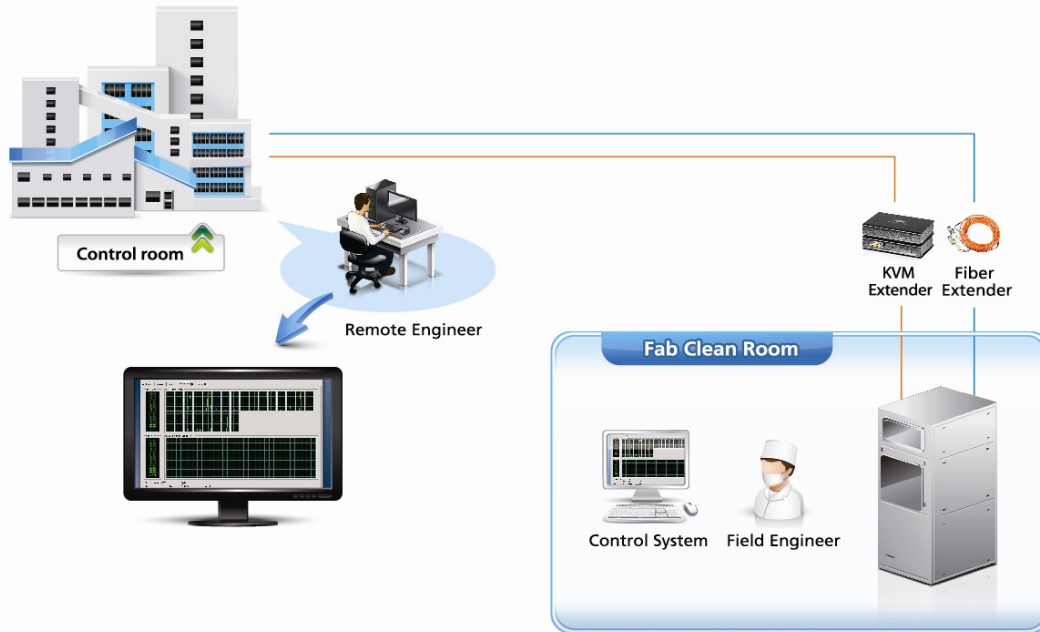
- Provide web-based GUI so that Remote Engineer can open four browsers to monitor four control systems in one display
- Supervisors can access over the TCP/IP network

Priority Control Box

ROS (for emergency)
Fab Clean Room views only
Control Room takes full control

Fab (for normal situation)
Fab Clean Room takes full control
Control Room views only

Interface: PS/2
Cable length: 3m

ATEN provides the customized firmware to work with Priority Control Box. The solution is used to assign the control priority between Fab cleaning room and control room.
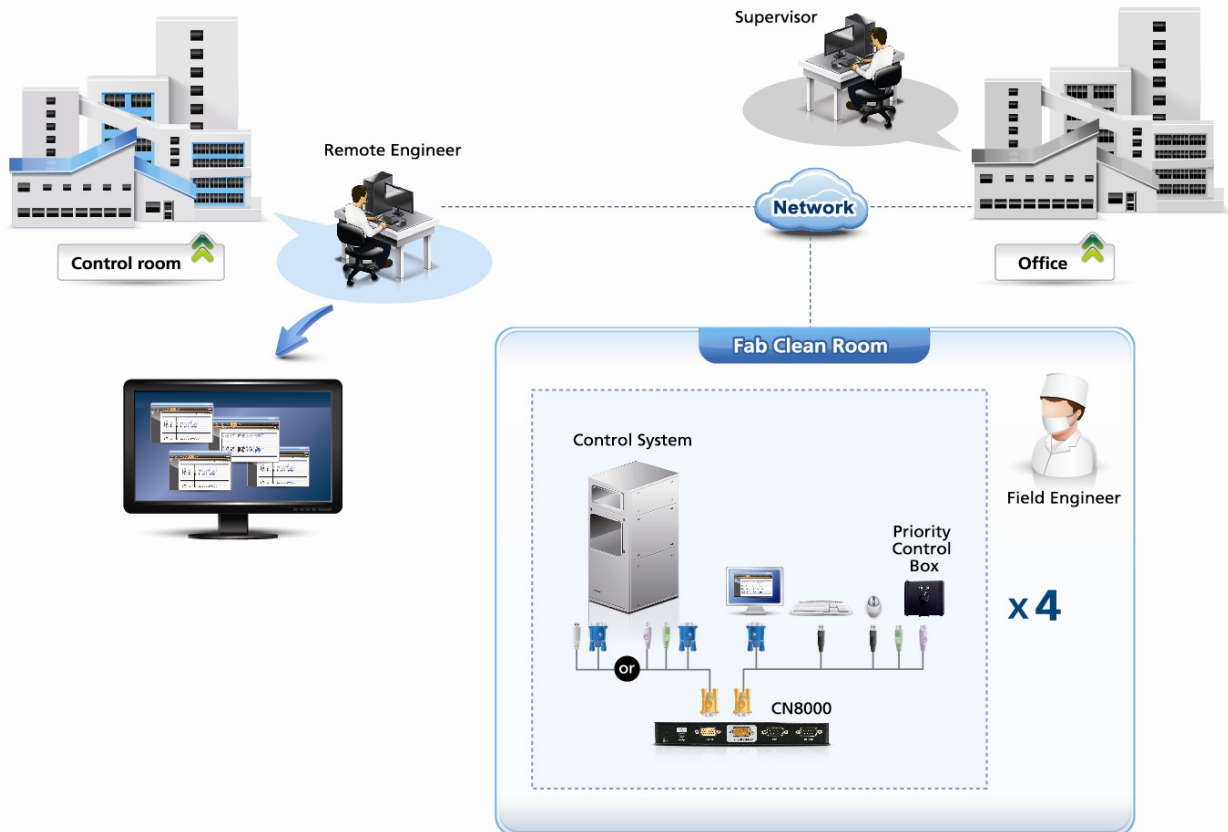
Setup

Before

After

Benefits

- Reduce Cost
Reduce the number of engineers in control room to save labor-cost and lower the installation cost by using the CAT5e/6 cables for connection.

- Enhance Manageability
Supervisors can remotely access over the network to enhance manageability.

- Operational Accuracy
Provide the customized firmware for CN8000 to work with Priority Control Box to prevent mis-operation.

- Ease Installation
Use the plant TCP/IP Ethernet network to ease installation.

- Increase Productivity
One remote engineer can open four browsers to monitor four control systems in one display by using web-based GUI.

- Speed up new production line set-up
Experienced engineer can be moved to the new plant for new production lines set up.