

SUMMARY

Demand for higher bandwidth are transforming ATM-based networking to Ethernet-based networking because the latter can support higher speed and easier implementation.

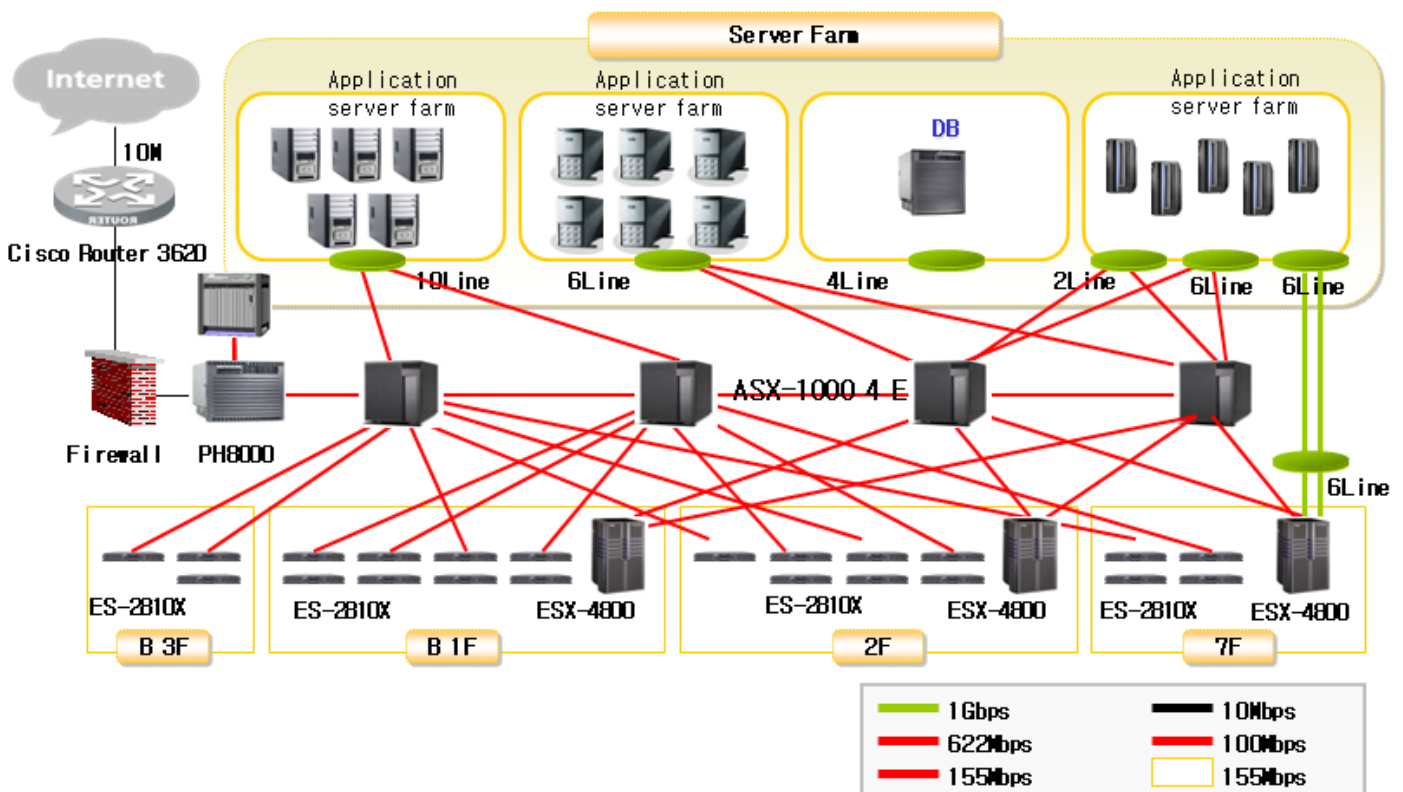
Ilsan Paik Hospital has been using an ATM network but needed to implement higher speed of network for the introduction of Electronic Medical Record (EMR).

AMS Korea migrated the network to Gigabit Ethernet networking for future IP applications and better performance. And NMS and TMS (Traffic Management System) could support more stable operations of Ilsan Paik Hospital.

CHALLENGES

As in the following diagram, Ilsan Paik Hospital used an ATM network that was consuming most of optical fibers between backbone and access switch. Increasing bandwidth without deploying additional optical fiber was a first challenge and removal of single point of failure of access switch was a second challenge.

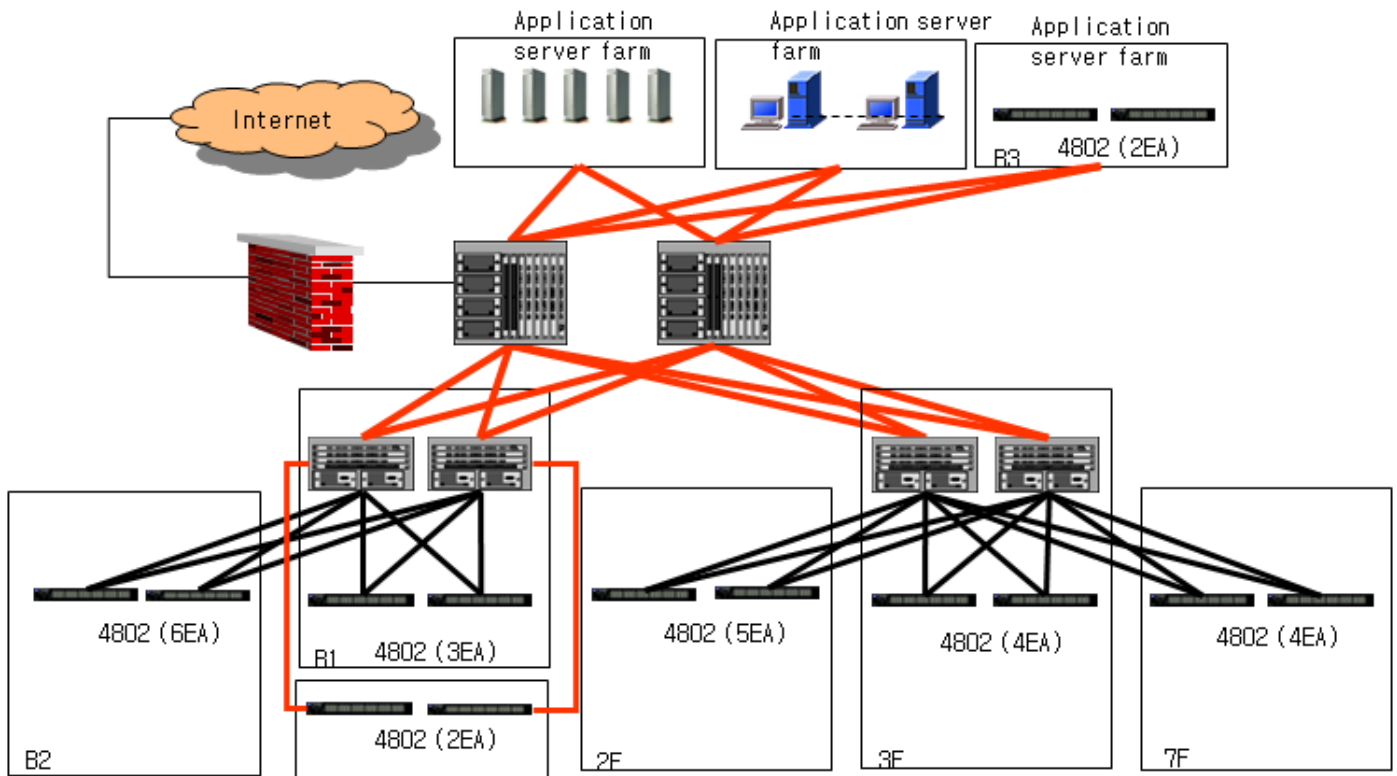
System to analyze abnormal traffic was necessary for the stable operation of the network.



SOLUTIONS

As in the following diagram, Gigabit Ethernet solution was introduced and 1000BaseTX connection to access switch could solve shortage of optical fiber with higher bandwidth. Dual Ethernet connections by using 1000BaseTx between backbone and access switches removed a single point of failure.

Introduction of NMS and TMS could allow stable network operation and traffic management.



BENEFITS

Through Gigabit Ethernet solution, Ilsan Paik Hospital built flexible architecture that can be easily expanded for future bandwidth demand and provide better service for its patients.

CUSTOMER INFORMATION

Ilsan-Paik Hospital staffed with a professional medical team offers quick and accurate treatment. Opened in December, 1999 in an ultra-modern 10 story building, Ilsan-Paik Hospital operates 22 departments including the Cardiovascular Center, the Cerebral Nerve Center, the Liver Center, the Allergy Center, the Geriatric Care Center, the Sports Medical Center, and the Health Promotion Center. The hospital is equipped with state-of-the-art surgical instruments and electronic system.