

case study

Koscom

Koscom Powers the Korean Stock Exchange
Network With NET24-XPNET™



Koscom was established in 1977 by the Korean Ministry of Finance and the Korean Stock Exchange to computerize the securities markets and related industries. Today, Koscom serves as a professional IT solutions firm offering cutting-edge technology to the financial securities industry, corporations, organizations and government agencies.

The Challenge

Koscom needed a network solution to connect the Korean Stock Exchange with the headquarters and nationwide branches of securities companies. The network would execute transactions accurately and seamlessly, provide a stable environment for all connected entities and become completely digital to achieve paperless trading in all stock trade-related operations.

Koscom also needed to provide high-quality telecommunications with value-added services to the stock market network, thousands of securities transaction-related computer workstations and other digital equipment throughout Korea.

The Solution

ACI Worldwide met Koscom's goals with NET24-XPNET™, and the solution has run the company's network since November 1996.

NET24-XPNET offers a full range of networking applications on the HP NonStop™ platform. The high-performance, electronic delivery system centralizes network operations, reduces costs and helps automate processes. NET24-XPNET manages a client/server environment where applications reside. These applications are accessible from various endpoints — workstations, ATMs and point-of-sale (POS) devices — using diverse presentation methods, including data, voice or image.

NET24-XPNET integrates various applications within the framework of a single network based on common network design. The solution distributes Koscom's network processing across multiple hardware nodes or locations. The architected contingency enables users to configure duplicate stations,

lines, processes, resource nodes and other components either individually or as a complete duplicate resource node.

Dynamic configuration allows Koscom to change its NET24-XPNET configurations without shutting down its networks. This feature allows Koscom to add, delete and modify objects and their attributes, which translates to lower costs for operations staff because of reduced overtime and late-night charges.

NET24-XPNET also offers Koscom powerful facilities to manage message queues. Message routing can be based on services, which are functions provided by one or more processes or stations. This feature replaces generic queues and allows for a more flexible application and network design.

The Results

Koscom transferred its original transaction handling application from its old mainframe system to an HP NonStop system. Koscom's application was then modified to run on NET24-XPNET middleware. Twelve XPNET nodes were installed on each of two HP NonStop machines running a total of nearly 200 processes and 60 stations per node.

Furthermore, Koscom was able to stabilize its network system and provide superior transaction capability, even when the stock market collapsed in December 1998 and total transactions climbed to more than 8 million a day. NET24-XPNET's continuous and fail-safe performance gives Koscom the reliable and cost-effective network solution it needs while providing more efficient and effective service to its customers.

To continue to provide stable service in the face of a possible future stock market collapse, Koscom added another NET24-XPNET node on an additional system in February 1999.

With NET24-XPNET, Koscom can accommodate evolving marketing strategies and increased transaction volumes through incremental hardware and software growth.