

Hankook Tire: Protection From Network Threats

**Customer:**

Hankook Tire of Seoul, Korea, is one of the world's biggest tire manufacturers, making passenger, high-performance radials and other products for sale in more than 200 countries.

<http://www.hankooktire.com>

Challenge:

To secure Hankook's worldwide corporate network against malicious intrusions which were flooding the network, causing downtime and exposing confidential corporate data to unauthorized acquisition.

Action:

Hankook deployed Juniper's IDP1000 and IDP500 products at key points in its network to protect its servers and data at the central office, R&D center and manufacturing plants.

Advantages:

- Secure and successful defense against network threats – no more network downtime or intrusions
- Centralized management means easier administration and OPEX cost savings
- Integrates smoothly with existing infrastructure
- Highly stable solution has improved network performance
- The Juniper IDP combined with the pre-existing NetScreen solution provides all the security for the network

"The Juniper Networks solution minimized the introduction of security threats to our network and provided protection above and beyond what our earlier anti-virus and firewall system could deliver..."

Kim Sang-Hoon
General Manager

Emfrontier Hankook Tire IT Outsourcing Division

The Need For Network Defense

Hankook makes passenger, high-performance radials, and light and medium truck and bus tires. Its products are sold in more than 200 countries and its clients include big names such as Volkswagen, Ford, Mitsubishi and Volvo.

It has strong Original Equipment relationships with many of the world's leading auto manufacturers. It is also one of the most profitable and fastest-growing tire companies anywhere, with compound annual growth in the last five years of 64%.

In early 2004, Hankook was suffering from a significant volume of network attacks. Continual worm, virus and denial of service attacks were taking their toll and the company's staff was experiencing decreased productivity and consequent loss of business.

A Global Challenge

Hankook had deployed firewalls and anti-virus software in its network, backed by a dedicated five-member IT security team, but even this concerted effort was unable to prevent multiple attacks that slowed network speed and, in some cases, caused expensive and troublesome network downtime. This meant a loss of employee output and problems in connecting with clients.

Hankook management was particularly concerned about the vulnerability of its Research and Development facilities in Daejeon where servers hosted sensitive company information.

For a global operation such as Hankook, the threat of network attacks is a serious challenge to the continued success of its business. It therefore became a top priority to find a solution that could fully protect the data on its servers and improve network availability.

IDP In Secure Star Topology

After reviewing solutions available on the market, Hankook chose the Juniper Networks NetScreen Intrusion Detection and Prevention (IDP) solution.

The decision points for Hankook were threefold: The NetScreen IDP's easy centralized network management, Juniper Network's MMD (Multi-Method Detection) technology, and the highly stable integration of the IDP solution with Hankook's existing network infrastructure (including the firewall).

In terms of topology, the NetScreen IDP device is deployed in a secure star topology, with all branch sites connected by a backbone router to centrally located servers. The IDP device provides protection against worms, viruses and Denial of Service (DOS) attacks, guarding the enterprise gateway and critical Web, mail, enterprise applications across the company's 60 sites in 17 countries.

Real-time Protection

The IDP solution brought immediate reductions in the number of successful network intrusions and drastically cut network downtime. The central management feature allowed for lower operating cost, with only three IT security staff required to monitor the device.

Hankook's deployment of the NetScreen IDP solution epitomizes a growing trend in enterprise deployment of advanced network security solutions. Because security postures comprising only of anti-virus and firewall solutions have been demonstrated to be inadequate in thwarting new types of intrusion, organizations are looking at the more comprehensive protection offered by an IDP system.

Global growth consulting company, Frost & Sullivan has identified the trend: "With the combination of proactive protection against known and unknown threats, real time monitoring, data collation and analysis abilities and vulnerability management functionalities, IDP [solutions] presents the answer to the needs of modern day enterprises for preventive security," it reported.

The report further states: "Coupled with conventional security defenses and strong security policy enforcement, deployment of IDP [solutions] will ensure enterprises of a comprehensive security strategy which provides real-time and dynamic protection."

Said Kim Sang Hoon, General Manager of Emfrontier, Hankook's IT outsourcing division: "The Juniper Networks solution minimized the introduction of security threats to our network and provided protection above and beyond what our earlier anti-virus and firewall system could deliver. We were also impressed with the extensive tool set that helps us administer network security policies."



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