

Hanmi Bank secures fundamental network access to efficiently manage resources, meet banking industry requirements, and ensure network uptime
ViaScope's IPScan Security Solution on IBM servers eliminates the need for around the clock network monitoring



Wilshire Branch



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"IPScan secures our customer data and helps us to comply with stringent (banking) industry regulations by automatically blocking unauthorized attempts at access and alerting us with time stamped information that can be retrieved at a later time for auditing and reporting purposes." *Wesley Won, First Vice President & IT Manager, Hanmi Bank, Los Angeles, CA.*

Customer: Hanmi Bank

Deployment Country: California - USA

Industry: Banking

Solution: Infrastructure Simplification, Business Process Management, Business Process Transformation, e-business Infrastructure Simplification, Systems and Network Management, Workload Management

Overview

Hanmi Bank was founded in 1982 in Los Angeles, CA and has since become a leading community bank providing services to multi-ethnic customers throughout California. Hanmi Bank operates 24 full financial service offices in the following counties: Los Angeles, Orange, Santa Clara, San Diego, and San Francisco. Hanmi specializes in commercial, SBA, trade finance, and consumer lending and is a recognized community leader in each of its markets in California.

Bank regulations for protecting sensitive customer financial and personal information are, understandably, very stringent. Large public banks, such as Hanmi Bank, must comply with industry specific standards set forth by the Federal Reserve Board (FRB), the Department of Financial Institutions (DFI), and the Federal Financial Institutions Examination Council (FFIEC), which outline several rules for banks, including how they must ensure the integrity and security of confidential customer information. In addition to this, the banks must also comply with cross-industry legislation including Graham-Leach-Bliley (GLB), which pertains to the privacy of customer information, and Sarbanes-Oxley, which requires publicly traded companies to have adequate internal controls and IT systems in place for fair and accurate financial reporting.

With over \$3.5 billion in assets and millions of customers, Hanmi Bank takes its responsibility to ensure the integrity and security of customer information very seriously. By taking a proactive approach, Hanmi was able to identify a potentially devastating threat to the integrity of the sensitive information it is responsible for protecting and quickly take steps to eliminate that threat.

- Business need:** Hanmi needed to secure sensitive customer financial and personal information and meet banking industry regulations for ensuring the privacy and safety of all customer information.
- Solution:** Hanmi Bank implemented the IPScan security solution to identify and prevent unauthorized use of the network, both internally and externally. Full audit trail and reporting capabilities provide evidence for compliance with banking regulations.
- Results:** The IPScan solution from ViaScope, running on IBM workstations and servers, has given Hanmi a fully automated network security monitoring system aligned with IT policies and processes that offers productivity gains for IT while transparently securing fundamental (*Layer 2, 3*) access to the entire network in real-time.
- Benefits:** IPScan ensures only authorized access to Hanmi Bank's information database for \$3.5 billion in assets across 24 offices. Projected significant improvement in IT staff efficiency in security network monitoring, reduced downtime due to protection of critical network components, as well as reduced exposure to security breaches. Reductions in compliance costs and risk of exposure for GLB (**Graham-Leach-Bliley Act of 1999**), SOX (**Sarbanes-Oxley Act of 2002**), and banking industry specific standards set forth by the FRB (**Federal Reserve Board**), the DFI (**Department of Financial Institutions**), and the FFIEC (**Federal Financial Institutions Examination Council**).

Case Study

After conducting an examination of their network in relation to the possible vulnerabilities that could allow customer information to be compromised, Hanmi determined that although their network perimeter was secured from outside attacks and breaches, the internal pathways (IP and Ethernet ports) were often unmanaged and unprotected. Hanmi knew that in order to actively protect customer information and to comply with ever increasing industry regulations, they would need to gain total visibility over the inroads into their network and ultimately into their customer information. They would also need the ability to block, in real-time, any unauthorized attempts to enter. With nearly 600 employees, 900 work stations, and 80 servers across 24 locations Hanmi Bank has a great deal of responsibility to ensure that no intruding individuals or devices gain entry through any of their open ports (wired or wireless).

Protecting Customer Data with IPScan

Hanmi Bank knew it was imperative that they move quickly to secure fundamental access across their network. They reviewed all options and weighed the advantages and disadvantages of each.

- The manual Address Allocation System used by Hanmi Bank in the past (these are typically built with spreadsheets or homegrown databases), while better than nothing, was labor intensive for Hanmi's busy IT staff. It did not offer real-time monitoring of address changes or attempts at unauthorized access. With no real-time monitoring capabilities there was certainly no way to block illicit entry onto their network.
- An alternative considered was Ethernet Switch Port-Address Locking, which requires the IT Administrator to manually assign a valid Ethernet address for each particular physical Ethernet switch port. While this method is very effective if administered correctly it is extremely time consuming and difficult to administer and does not cover IP addresses. This is a good option for smaller businesses with a small number of IP addresses to manage and a single physical location
- DHCP (Dynamic) IP Address Management Solutions were also considered by Hanmi Bank. With these tools it is easy for IT staff to monitor and administer DHCP addresses. However, these solutions are not able to provide enforcement on any Static IP addresses and are only used by 20% of organizations
- IPScan was ultimately selected by Hanmi Bank for its ability to allow

them to cost-effectively monitor all available IP addresses in real-time and to block any unauthorized attempts to access the network. IPScan provides IP monitoring & blocking capabilities for both DHCP and Static IP addresses, as well as for wired and wireless access for Voice over Internet Protocol (VoIP) – essentially any device using Internet Protocol to access the network

By employing IPScan and aligning the solution with their IT policies for access management, Hanmi Bank now has a very sophisticated access control structure in place that is centralized and offers a very granular level of policy enforcement. Hanmi can view all devices attached to the network across all locations and can drill down to find detailed information on a particular node, such as name of the individual using the device, exact physical location, and information about the device itself. They can then actively block unauthorized access or unauthorized IP address changes. Unused IP addresses can effectively be 'locked' until the IT department can verify that the access is warranted. Temp workers can be assigned network access for a specified number of weeks or months. These policies are all managed centrally through the IPScan Console.

The true power of IPScan lies in its unique ability to manage both the IP address and the specific MAC (Media Access Control) address of each device using ARP (Address Resolution Protocol). The monitoring through ARP is transparent to the authorized users and does not interfere with their access in any way. Because of this architecture, IPScan can automatically detect when IP address changes are made and immediately alert the IT staff to these changes. This empowers the IT department at Hanmi Bank to mitigate the risk of network breaches and to quickly and efficiently manage its large pool of IP addresses.

Furthermore, Hanmi benefits from the advanced reporting and audit trail capabilities within IPScan. Top executives at Hanmi Bank are able to view reports of IP address changes and unauthorized attempts to access the network by department, location, division, or aggregate for any specified timeframe. This ability to view activity surrounding fundamental network access over time and over various levels of granularity empowers Hanmi Bank with proof of adequate internal controls and privacy of customer information for all internal and external access points. It provides a complete and detailed audit trail for IP address management and comprehensive access control.

Easy to Deploy and Manage

Deploying and using IPScan has been an effortless experience for Hanmi Bank, since no client software needs to be installed or downloaded to end-user devices. In addition, network management is transparent to authorized users on the network. It does not interfere with their ability to traverse the network and conduct business, nor does it require any bandwidth to slow the network in any way. Hanmi has found the IPScan Console to be extremely intuitive and easy to learn. "IPScan has powerful monitoring and blocking features that we can map to our IT policies for access control. Yet the Console is remarkably easy to use." *Wesley Won, First Vice President & IT Manager, Hanmi Bank.* They are now able to monitor and block any and all unauthorized access into their network.

IPScan as a Valuable Asset

Hanmi Bank is currently leveraging IPScan for the two purposes central to their needs as a bank. First, they are protecting sensitive customer information from individuals who would use open 'back doors' within the network to gain access to data without triggering perimeter security such as firewalls. Second, they are ensuring that they will not be subject to heavy fines and loss of reputation and customer confidence due to a lack of fundamental network access protection. "As one whom oversees the IT systems for Hanmi Bank's branches throughout California, my primary objective is safeguarding the sensitive personal and financial customer information that our organization is entrusted with. My other focus is on making sure that we comply with all of the regulations pertaining to our industry, from SOX to GLB to FFIEC requirements." *Wesley Won, First Vice President & IT Manager, Hanmi Bank.* There is also the added benefit of reduced operating costs associated with management of the hundreds of IP addresses, many changing frequently, across several locations.

Conclusion

With IPScan installed, Hanmi Bank now has secure and fully compliant fundamental network access. Critical customer information is protected, not only from hackers outside the network perimeter, but also from dangers that could arise through any of the hundreds of physical and virtual access points within the borders of the Hanmi Bank IT network.

Key Components of Hanmi Bank Network security Solution

ViaScope IPScan Solution

- IPScan Console
- IPScan DB Server
- IPScan Probe500 and 100
- IPScan Software (Version 3.4.1)

Hardware

- The software runs on a variety of Microsoft Windows 2000, XP or 2003 servers. The software solution runs on a variety of IBM eServer® xSeries®, BladeCenter® and pSeries® using IBM TotalStorage products for data storage.

Software

- The software requires either a Microsoft SQL 2000 or MySQL 4.1.7 database for collection and management of network devices.
- IBM DB2, Oracle and other DB

About ViaScope

ViaScope is the leading provider of secure Ethernet/IP network access management solutions, that provide real-time and historical monitoring of an entire IP network's MAC and IP addresses, access, activity and policy compliance, as well as secure policy enforcement by blocking unauthorized Ethernet/IP devices from utilizing the network. IPScan has been deployed in production by dozens of global Fortune 500-class enterprises, Service Providers, government and educational institutions. ViaScope USA is headquartered in Los Angeles, CA. For more information, visit ViaScope on the web at www.viascope.com, send email to sales@viascopeus.com or call 877-IP-SCANN.

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