

*“UTM-1, with a superior cost-to-performance ratio, provides for a safe network architecture and application services.”*

*Hirofumi Fujita  
Office Manager, ICT Strategy Center,  
Sooki Co., Ltd.*



**CUSTOMER NAME**

Sooki Co., Ltd.

**INDUSTRY**

Measuring Equipment Rentals

**CHECK POINT PRODUCTS**

- UTM-1™
- Safe@Office 500™
- SmartDefense™
- SSL Network Extender™

**CUSTOMER NEEDS MET**

- Enabled safe remote access environment for clients
- Provided low-cost, integrated gateway security system
- Reduced operating overhead
- Provisioned uniform security environment for all customer locations

**UTM-1 Adopted for Security Infrastructure of a New Application Services Business**

**ABOUT SOOKI CO., LTD.**

Sooki Co., Ltd. provides rentals, sales, and repairs of survey and measurement devices, and measuring instrumentation and is growing in areas such as development and implementation of automated survey systems. The firm has also started a new service operation providing 3D application services for various industries that use 3D measurement technologies. To enable secure use of these applications by customers from plants, offices, and research centers, Sooki installed the UTM-1™ unified threat management (UTM) appliance in its data center. This installation provided a firewall, intrusion prevention, antivirus and anti-spyware protection, and an SSL VPN, all at low cost. The small-scale UTM appliance Safe@Office™ 500 was also installed at each company location, improving point-to-point network security.

**SOOKI, FOR A WIDE ARRAY OF MEASUREMENT NEEDS**

Sooki was established in 1989 on a business concept of “measuring” (by observing, recording, weighing, and graphing). Its primary business is rental of measuring equipment and all types of measurement instrumentation, and the company also provides sales and repairs. The company handles a very wide range of measuring equipment, from surveying equipment for civil engineering and construction using the world’s best and most advanced measuring technologies to water quality measuring devices, noise and vibration measurement equipment, weather observation equipment, and nondestructive inspection equipment. Sooki procures measuring-related equipment throughout the world and is expanding its rentals and sales. The company also includes technicians dedicated specifically to maintenance of this diverse measuring equipment, making its availability of top rental equipment unmatched.

Sooki also provides automated surveying and measuring equipment in fields where the reliability and technical prowess of the company are acclaimed. One example is a box guidance system that marks excavation locations for tunnels



and underground excavation work with high precision. It accurately controls the position of a shield machine in assisting the highly precise control of shield excavation by the use of real-time automated survey equipment that displays the 3D position of a caisson used as a bulwark, thus displaying measurement data immediately. With a history as the first in Japan to pursue automation of such specialized measurement applications, and with expertise from more than 1,000 sites, Sooki is also acclaimed internationally.

Hirofumi Fujita, manager of the Sooki ICT Strategy Center, highlights the core competency of Sooki. "Our advantages are in having a full lineup of the latest measurement equipment from all manufacturers, developing systems, and customizing this equipment for data processing, and providing solutions through improved systems."



*Hirofumi Fujita, Manager, ICT Strategy Center Sooki Co., Ltd.*

The surveying and measuring solutions of Sooki include a new 3D modeling solution: laser light is directed at an object to be measured, accurate 3D spatial coordinates for the object are measured, and a set of points that make up a 3D model is created. For example, an area may be scanned with a 3D laser scanner to create a data point set. This data set can be processed into 3D CAD data using 3D modeling software and then converted to a format allowing use in 3D or VR (virtual reality) software. Rendering software can then be used to finish this data as a spatial picture with a real feel, or VR software can be used to create a real-time walkthrough image in virtual space.

### **3D Modeling of Scan Data a Challenge for the Application Services Business**

There are cases where a measuring device such as a 3D laser scanning system is rented, but there are also cases where Sooki receives scan data, performs 3D modeling, and provides CAD or other such data.

Describing the background to Sooki's involvement in this new services business, Fujita says, "Normally, we have people bring compressed data on media, this is processed by our systems, and the modeled results are delivered. But this requires work on site while the results are verified and causes a definite loss of time. What we would like, for example, is for work to progress while a 3D model based on data measured

during tunnel excavation is verified nearly in real time, in the general contractor's office at the construction site. We decided to enter into this type of ASP service by making a modeling system at our data center available for remote use at the site."

At most public works and construction sites, there is typically a JV (joint venture) office at or near the construction site. The JV office is a shared meeting place where networks with the offices of various general contractors are set up, and the different security policies of each company actually make it very difficult for Sooki to access the networks of the various JV firms and use the results modeled from measurement data.

Sooki has therefore constructed a network environment enabling the construction site, JV office, and each general contractor location to access the Sooki's Tokyo data center via the Internet and use the application. The PC environment of each of the companies at the site office varies, and some do not have adequate equipment. Of course, a VPN is required as a means for allowing safe access via the Internet, but an environment that requires client software such as an IPsec VPN cannot be used. Starting an application service in these circumstances requires a gateway security system allowing transfer of measurement data and use of applications and configuration of a safe network environment allowing viewing of results.

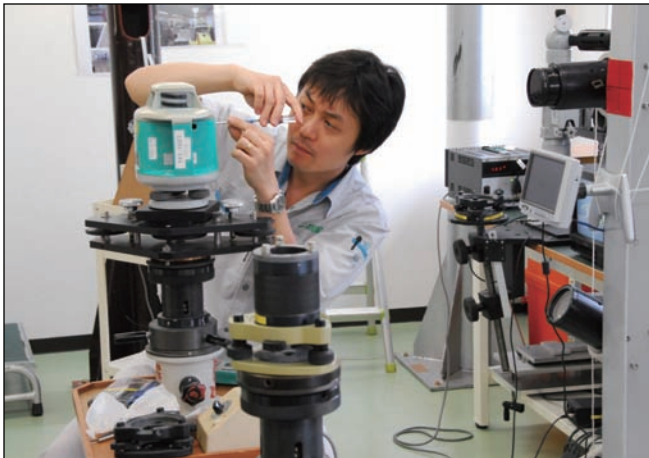
### **UTM-1 Enables Safe, Web-based Use of Applications**

UTM-1 was introduced to resolve such issues in new Sooki businesses. Sooki had also introduced a firewall/VPN appliance at its main office in Osaka and in seven sales offices throughout Japan and had constructed a star-type VPN network for accessing its main business systems and files. However, the appliance introduced was unsatisfactory, and when UTM-1 was installed in the Tokyo data center, security tools for each location were also standardized on one vendor, and to maintain a uniform level of operation, appliances from other companies used at each location were all switched to Check Point Safe@Office 500.

During initial planning, construction of a general-purpose server and firewall/VPN software gateway was investigated for accessing the data center over the Internet. However, in addition to installing and configuring operating systems and security software, Fujita is also responsible for internal systems and network operation and thus wished to reduce operating overhead as much as possible. Another prerequisite for rapid construction of a platform for the new business was an appliance offering easy installation and maintenance.

"Increased maintenance of items such as OS security patches, security software, and hardware would represent an increased burden. We wanted to avoid this as much as possible, and we felt that an appliance would be better," says Fujita.

UTM-1 enables unified threat management for Sooki, and there have also been plans made to roll out SSL VPN for easy access to each customer network. The goal was for a simple, straightforward system that could defend against Internet threats such as viruses and worms.



To prepare equipment from various vendors for rental, Sooki has specialist technicians perform maintenance. This maintenance system is another advantage Sooki offers.

Describing his prior evaluation of Check Point products and the reasons for selecting UTM-1, Fujita commented, "Originally, I heard that SmartDefense™ could handle application-level defense functions and newly registered threats with simple updates. But we couldn't forecast the number of users there would be for this new business, so we were worried about not being able to set up an accurate plan. Then UTM-1 came on the market with the exceptional cost-to-performance ratio of an unrestricted number of users, and we grabbed it."

Fujita also emphasized that direct contact with Check Point during the product evaluation and selection process and the product information and advice provided were very different when compared to his experiences with other IT vendors.

Because transfers of measurement data reach 1 GB even with the use of high-compression software, and considering firewall throughput, the product that was selected and installed was the UTM-1 1050. To enable secure FTP transfer via Web and application access, SSL Network Extender™ was also added. In addition to this SSL VPN plugin, nearly all of the security functions are being used, including firewall, intrusion prevention, antivirus, and anti-spyware.

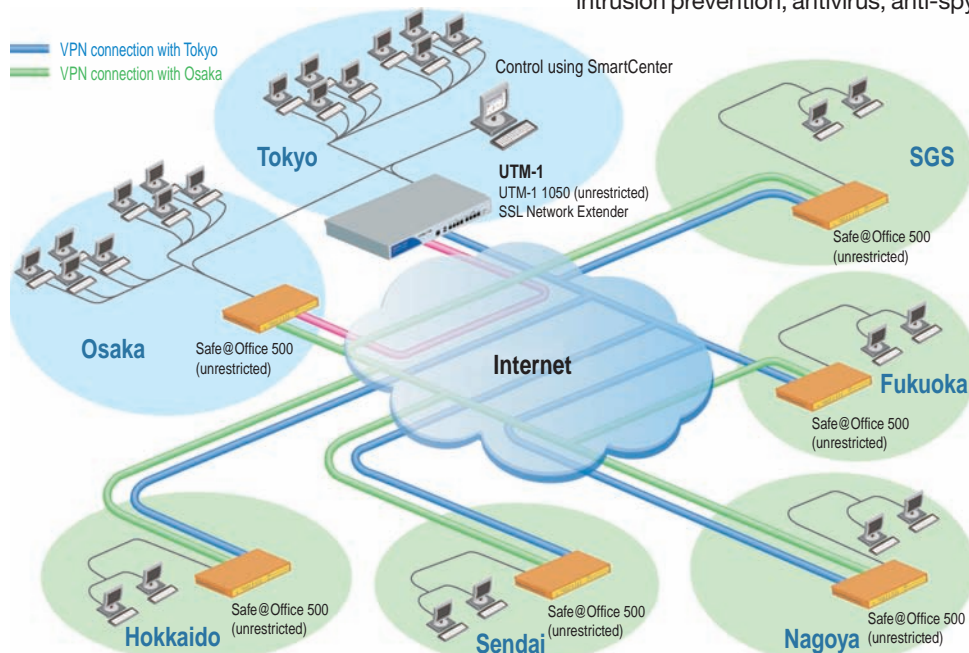
A virtual server environment is constructed for each client in the data center for 3D modeling applications, and clients can access their own sites via the Internet.

In contrast, a star type VPN centered at the Osaka head office had been constructed as an internal network between company locations, but groupware and file servers other than the main business system were moved to the Tokyo data center, and Safe@Office 500 was installed in each of the sales offices, changing the network to a decentralized design.

According to Fujita, "Using UTM-1 allowed substantial cost reduction over the initial budget, and it was possible to use the funds to install Safe@Office 500 in each location. Even if security at the main location is strengthened with UTM-1, if there is lower security at the other locations, that becomes a weak point and creates a security risk. Standardizing on the same Check Point product, Safe@Office 500, simplified operation and also made it possible to increase the security level uniformly."

#### UTM-1 Redundancy for Increased Availability, Increased Expansion of Service Business

Construction of a security infrastructure was implemented in a short time through installation of UTM-1 and Safe@Office 500, thus contributing greatly to rapid setup of the Sooki application service business. Safe Web access was provided by a firewall, intrusion prevention, antivirus, anti-spyware, and SSL Network



VPNs between sites centered in Tokyo and Osaka: the Safe@Office 500 at each location uses a firewall, VPN functions, and IPS functions, virus checking, and SmartDefense. All appliances are controlled remotely from Osaka or Tokyo.

Extender. These necessary security functions were achieved in a challenging environment and at low cost.

“We now have an environment allowing safe use of applications at various locations such as construction sites, JV offices, general contractor locations, and research laboratories, and one where we can work while modeled 3D images are validated. This greatly reduces the amount of time between data measurement and modeling and helps shorten the construction period. Functions like Web conferencing, with simultaneous access from each location, also allow work to go on during real-time verification operations,” says Fujita.

Previously, an IPSec VPN was also used to provide access to the Osaka main office, making operational control of client software burdensome. But using Safe@Office 500 for a VPN between sites provided both increased security and bettered operational control.

In addition to a 3D scanning modeling application, Sooki plans to provide various types of application services for processing measurement data. To expand the number of clients using this service, Sooki plans to duplex UTM-1 and Internet access lines in order to increase the availability of networks and infrastructure.

“When we first thought about providing these services, we found that next to safety, client demands for network reliability and availability are high even for items that are not mission-critical business applications. First, we increased network availability by using ClusterXL® for UTM-1 appliance clustering. Then we increased network reliability by duplexing Internet access lines,” says Fujita.

UTM Edge™ will also be installed on client enterprise sites through the application services provided. In addition to providing application services, Sooki would like to create a new service that also includes network device monitoring services.

Lastly, Fujita discussed selection and use of a platform for deployment of a new service business.

“When you develop a services business, unless the product or technology used is available indefinitely, it can’t be used with confidence. There are a lot of cases where products disappear from the product lineup or continual evolution of the core technology stops. On these issues, Check Point provides solutions resulting from continual advances in core technologies with a long history of proven results. So, I’m confident these are products we can keep using,” says Fujita.

Customer Challenges
<ul style="list-style-type: none"> <li>• Construction of a safe remote access environment using VPN through the Internet</li> <li>• Construction of a consolidated gateway security system providing high security at low cost</li> <li>• Construction of a uniform security environment with no inconsistencies between locations</li> <li>• Enhanced benefits and improved installation through gateways integrating security functions</li> <li>• Increased security through continuous response to the newest threats and use of application-level defense</li> <li>• Start up of new business using application services</li> </ul>

Installation solutions										
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Installation Advantages
<ul style="list-style-type: none"> <li>• UTM appliances allow rapid deployment of security infrastructure</li> <li>• Simple gateway security environment implemented at low cost</li> <li>• Uniform increase in security level for all sites</li> <li>• Enhanced benefits and improved installation through gateways integrating various security functions</li> <li>• Increased security through continuous response to newest threats and use of application-level defense</li> </ul>

<b>CONTACT CHECK POINT</b>	<b>Worldwide Headquarters</b> 5 Ha'Soleimn Street, Tel Aviv 67897, Israel   Tel: 972-3-753-4555   Fax: 972-3-624-1100   Email: info@checkpoint.com
	<b>U.S. Headquarters</b> 800 Bridge Parkway, Redwood City, CA 94065   Tel: 800-429-4391; 650-628-2000   Fax: 650-654-4233   www.checkpoint.com

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