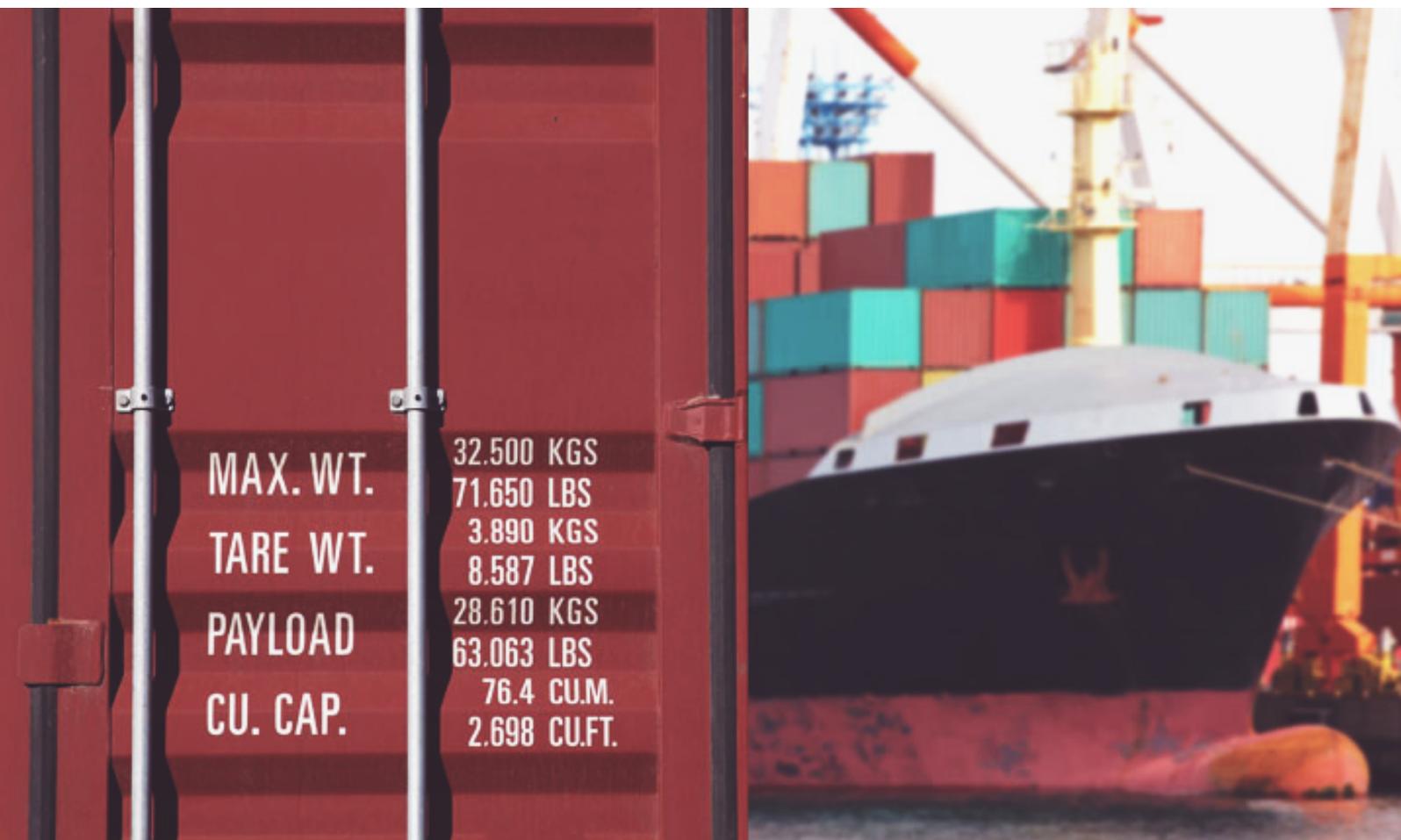


# Atrust Thin Clients t68W Helps Creating a Better Work Environment for Shin Nihon Kentei Kyokai, the renowned inspection agency in Japan





## Customer Overview:

The Shin Nihon Kentei Kyokai (“SK”) was established in 1948 and is an official international association authorized to conduct marine surveying in Japan and overseas. With over 60 years of experiences, SK offers services in survey, inspection, and analysis of export, import and domestic cargo, as well as quality certification and prevention of transportation accidents.

**Organization name:**

一般財団法人 新日本検定協会

**English name:**

SHIN NIHON KENTEI KYOKAI

Date Founded: February 1, 1948

Basic Revenue: 100 million yen

**Headquarters:**

〒108-0074

Tokyo, Minato-ku, Takanawa 3-chome

No. 25 No. 23 Keikyu the second building

Office: nationwide 42 offices

<http://www.shinken.or.jp/>

## A comprehensive test institution to support domestic and international logistics

Established in 1948, Shin Nihon Kentei Kyokai (“SK”), is an official international association authorized to conduct marine surveying in Japan and overseas. With over 60 years of experiences, SK offers services in survey, inspection, and analysis of export, import and domestic cargo, as well as quality certification and prevention of transportation accidents. In addition, SK performs analysis services on various products, from petroleum, petrochemical, mineral products to foods and foodstuff, under the permission of the Japanese Ministry of Welfare & Labor, contributing to the enhancement of security for consumers as well as business organizations.

### Challenge of the desktop environment

SK had worked hard in supporting the safety of domestic and international logistics. In 2015, SK had reached to the point for renewing its desktop environment. The desktop virtualization environment had been used with a blade of PC. Along with its aging environment, the system contributed to higher and higher workload and power usage. How to reduce the heavy power load while maintaining the same quality of its services was a challenge. To provide a consistent service to its customers, the IT team of SK wanted energy saving alternatives and started to look for an IT solution.

### The study of VDI solution

In 2015 spring, in order to solve all kinds of virtual desktop problem, the IT team of SK started to collect all kinds of IT solutions, including Microsoft Hyper-V and Citrix technologies. The IT leader of this project described the process. “We started to construct a new desktop environment in a low cost plan. To reduce the power consumption, we chose the VDI server system. The initial cost might be high, but the performance was better when compared to traditional blade PC system. The way it worked, with the data center all in the cloud, not only saved the energy, but also reduced the total cost of ownership and the expense on hardware.”

## Introducing the implementation of Citrix technology

When talking about the experience of using Citrix technology, the IT leader of this project stated, “We had used Citrix XenDesktop while we used blade of PC system. It delivered the desktop environment to the users via the ICA protocol with reliability, security and efficiency. We didn’t hesitate to continue using it. Citrix also provided Citrix Receiver, the client software to access to applications from any devices for free, including PCs and tablets. That was a big plus when evaluating this solution. In addition to the management tool, Citrix Provisioning Services allowed you to have a single instance image management of your XenDesktop, which helped to manage the desktop environment efficiently.”

## The adoption of new thin clients

With the renewal of the VDI solution, the end-point devices needed to renovate, too. The thin client was a device designed in a compact size with miniature hardware, enhanced security and low power consumption for server/client computing environment. It didn’t contain any hard disks, which delivered a secure and reliable desktop environment. After evaluating several virtualization solutions on the market, the IT team decided to implement Atrust thin client, [t68W](#). Atrust was outstanding among others due to its quality, the stability and flexibility in production and development. Plus, it had expanded its support to Japan. Here were some reasons why we chose it.

“There was also an option to continue using the same manufacturer’s products, but we were looking for a solution with high-performance in low cost. Atrust offered a wide range of selections, from entry-level to high-end models. We were able to find a solution to meet our requirement, which was to reduce the power usage. Atrust thin clients fulfill our needs, compared to conventional products, we believed that the power consumption can probably be reduced around 50% per unit,” Stated SK’s IT team leader.

## Desktop issue realized – the storage

After four months environmental construction, we expected it to have a full deployment to the whole company in April 2016. In this VDI environment design, the storage became an important role. Upon transition from the blade PC system to VDI one, a smooth switch was required and wouldn't disrupt users. Even when users were all there at once, any user dissatisfaction caused by the drop of the performance was not allowed. It was important to keep in mind that even during setup, the waiting time should be minimized when it occurred. "In the VDI environment, the storage was an extremely big role in this project. Many plans had a big case, but didn't have a decent design. In order to capture the I/O status and had a corresponding performance, we had selected a proper storage for our VDI environment." The IT leader recalled.

## The next-generation logistics services in the future

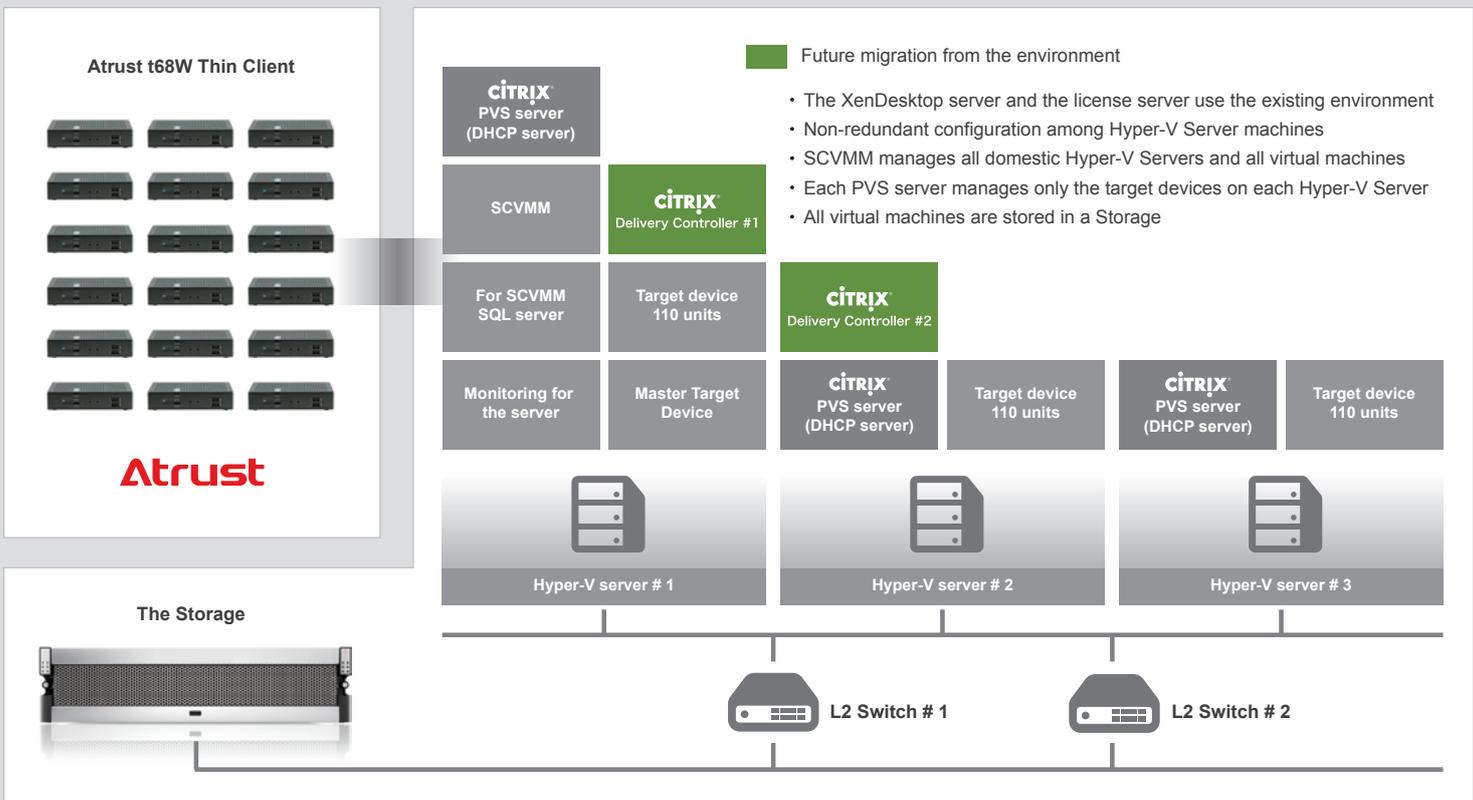
SK's desktop environment achieved a significant change this time. But how will the evolution take place in the next step?

"We believe that the renewal of our desktop environment this time was designed and built as an ideal environment. The environment we built was solidly launched and operated stably. Depending on the timing for next renewal of virtual desktop infrastructure, we are considering to move the operation from on site to the cloud. Combining this with further improved operational management, we believe that it can lead to a reduction of hardware costs," Said the IT team leader. Supporting next-generation logistics requires even more innovation. SK has taken its first step into the virtual desktop environment. To thoroughly take advantage of this advanced IT infrastructure, SK will keep working in this direction and see it as a great responsibility in the future.

## Result

Working with bulky and energy consuming workstations became a history. With only thin clients and monitors to connect, there is nothing under the desks. Besides the improvement of work conditions, the data security has increased. Data can now be saved in thin clients via USB port, which can be controlled by the administrator easily.

“The renewal of the desktop environment this time was a good move. It made our desktop environment secure, stable and reliable; and thus, we may support the next generation logistics business better. It also improved the operational management and reduced power consumption and cooling requirements in the work area.” The leader of IT team said.



### Benefit:

- **Flexibility** - Atrust thin client devices can easily be used in any work spaces, such as offices, with different types of host environments
- **Security** - Protect against manipulation destructive viruses and spyware
- **High-performance** - Meet the request of using multimedia, graphic intensive apps
- **Cost effective** - Total costs, including energy cost, can be reduced gradually
- **Environment friendly** - Smaller footprint and lower heat load, noiseless design

### t68W

Atrust t68W features the Intel® Bay Trail dual core 1.58GHz processor, 2GB DDR RAM and 8GB flash memory and runs Microsoft® Windows® Embedded OS. Windows® Embedded Standard 7, Windows® Embedded 8 Standard and Windows® 10 IoT Enterprise for Thin Clients are available. Atrust t68W delivering powerful performance with reliable desktop experience. Fluent graphics with smooth HD video playback and internet streaming are offered in the virtualized environment as well. t68W supports single display with one DVI-I port, up to 1920 x 1200 resolutions.



Atrust t68W supports up to four USB 2.0 ports for commonly used peripheral connectivity. Weighing less than 300g, the compact design of Atrust t68W gives you the power you need under a secure virtualization environment. Organizations that are looking for high-performance computing with limited budget can be benefited from their design. For more information, please contact Atrust sales at [sales@atrustedcorp.com](mailto:sales@atrustedcorp.com)

## Specifications

x86 Based Thin Client - t68W	
Processor	Intel® Bay Trail Dual Core 1.58GHz
System Memory	2 GB
Flash Memory	8 GB
Max Resolution	Up to 1920 x 1200
I/O Ports	Front: 2 x USB 2.0, 1 x Headphone, 1 x Microphone, Rear: 1 x DVI-I, 2 x USB 2.0, 1 x RJ-45, 1 x DC IN, 1 x Kensington lock slot
Networking	10/100/1000Mb
OS	Windows® Embedded Standard 7 (WES7) Windows® Embedded 8 Standard (WE8S) Windows® 10 IoT Enterprise for Thin Clients * 16GB flash memory is the minimum requirement for Windows® 10 IoT Enterprise for Thin Clients
Protocols	Citrix® HDX/ICA™ Microsoft® RDP™ with RemoteFX™ VMware® Horizon View™ PCoIP

### About Atrust:

Established in 2007, Atrust is a creative, professional, and enthusiastic team which has rich experience in designing, producing thin client, server and management software. The objectives of Atrust are to provide customers with high quality, high efficiency and environmental friendly products as well as comprehensive solutions.