

Remote PC Array Case Study

SECOM Trust Systems Co., Ltd.



REMOTE PC ARRAY (RPA) Large-scale Case Study

Develop the company's stable and constantly operational infrastructure to meet high-level demands of "safety, security, pleasure, and convenience"

Background

Secom Trust Systems Co., Ltd. is responsible for the core of the BPO.ICT business of the Secom Group. We make the most effective use of our technology and service capacities to provide "safety and security" fostered by the system construction/application of the Secom Group 24 hours a day, 365 days a year and have also developed a complete services business by treating information security and largescale disaster policies as central matters. We constantly strive to meet the changing business demands, such as by providing concrete solutions through our consulting service for the increasingly complicated threats of net companies and by handling BCP (Business Continuity Plan). To meet high-level security demands, the Secom Group developed the "Secom Group 2030 Vision" and makes every effort to implement the "Security Platform" plan. To do so, Secom Trust Systems Co., Ltd. considers the settlement of company infrastructure under security operations as an urgent mission.

The Secom Group has already developed a VDI environment, different environments also need to be developed, rather than a unified environment, in order to diversify risks in case of damage. The Remote PC Array is a good option for this situation. In a remote PC array (RPA), 20 physical PC cartridges are mounted in a 1U housing, creating an all-in-one solution that provides all of the necessary CPU, memory, storage (SSD), network switch, and management software to a virtual desktop. With a physical PC for remote connection, no hypervisor is required. This setup will dramatically decrease the cost of the infrastructure part, as well as the design and construction period. Furthermore, in case the hardware runs into trouble, maintenance can be easily done. The hot swap can be applied by removing the concerned cartridge without unnecessarily stopping the operation of other computers. To expand capacity, additions can be made per one chassis unit, and 1U (Physical PC x 20) unit can be performed for several users.

Secom Trust Systems Co., Ltd. has proceeded with the examination of Remote PC Array as potential solution with a low cost, short-term design/installation period, and stable performance, which has led to the use of 7,700 computers (385 chassis) and the large-scale development of the Secom Group.

Advantages of the Remote PC Array Case Study

For Secom Trust Systems Co., Ltd., the advantages of installing the Remote PC Array are listed below:

● Low cost

The Remote PC Array is a potential solution with low-cost installation, so we initiated it at Secom Trust Systems Co., Ltd. within our budget.

● Stable performance without impacting other terminals

The remote can directly connect to separate desktop environments stored within the unit, so that each one can gain such resources as CPU, memory, HDD, etc.

● Low failure rate

7,700 computers (385 chassis) have been installed for more than 1 year, with an average failure rate below 0.02%.

● Short Delivery

If an ordinary VDI is developed on a large scale, an installation time of about 8~12 months is required. However, this time, it was completed in about 1 month.

Difficulties in Installation

"The most difficult part of installing the Remote PC Array is the separate terminal setup. First, it must be directly connected to the Console to set up individual terminals. However, this takes time, so our company has created a script to automatically change terminal names from the management aspect. Performing this script means that the setup can be done comfortably. Furthermore, the bulk Remote PC Array has safely been handed over to different departments in a short period of time" (Office Work Service Headquarters System Engineering Department, the 1st System Group Manager of System Engineers Mr. Hasegawa).

Toward the Future

"The degree of satisfaction regarding performance of end users is high, and its stable operation has also been highly evaluated. Furthermore, it not only has the advantage of low cost but also that of flexibly handling your company's demands. We will increase the number of Remote PC Arrays when replacing VDI in the near future" (Office Work Service Headquarters System Engineering Department Deputy Manager Mr. Katamizawa).

Secom Trust Systems Co., Ltd., which can provide a more stable company infrastructure by installing the Remote PC Array, is expected to develop a "safe, secure, pleasant, and convenient" company, move toward the "Social System Industry", challenge ourselves to handle a number of social problems, and create the most suitable and necessary services for customers.

Company Overview Profile



Office Work Service Headquarters
System Engineering Department Deputy Manager
Mr. Katamizawa Hiroshi (right)


The 1st System Group
Manager of System Engineers
Mr. Hasegawa Hirokatsu (left)



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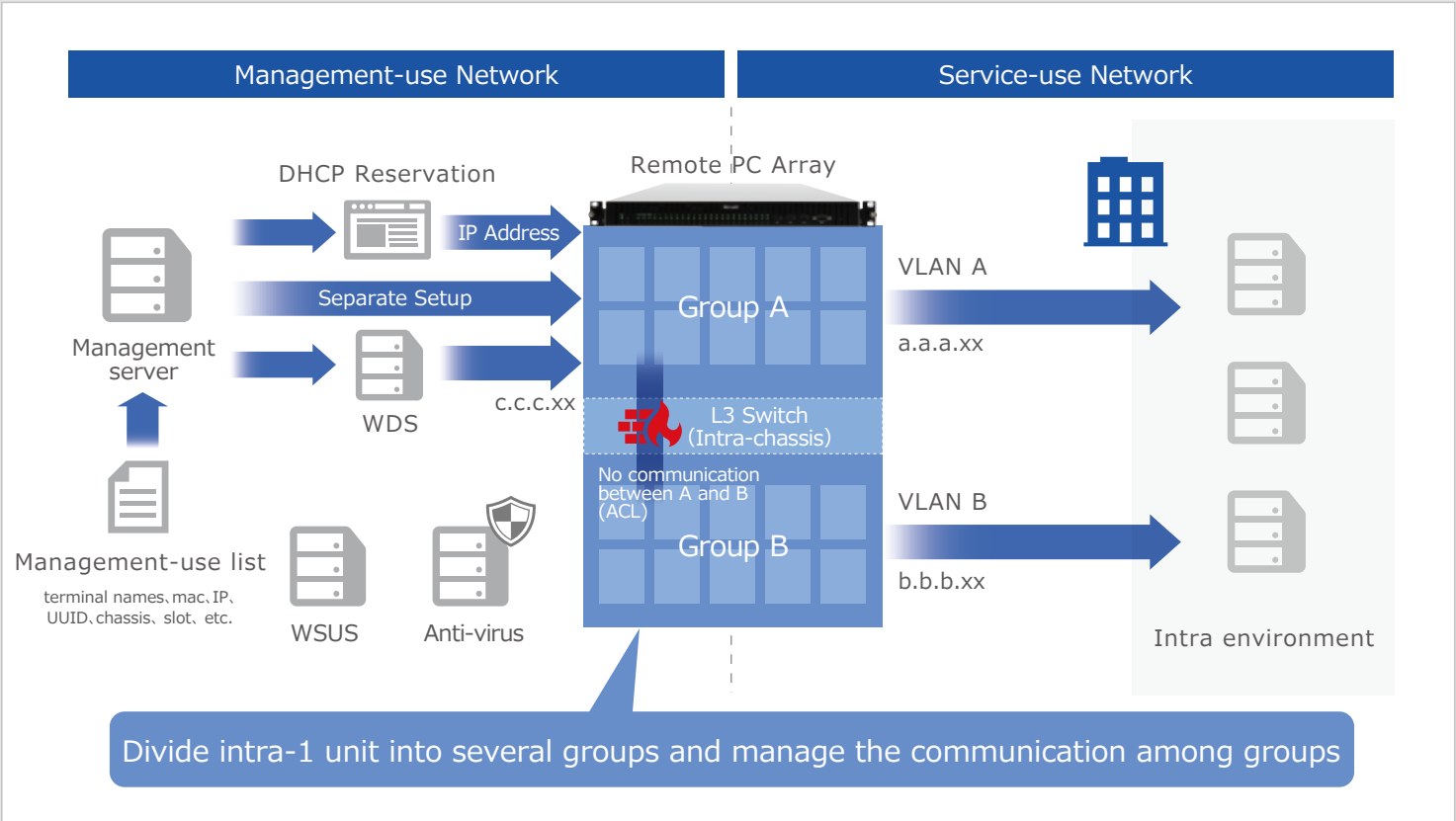
<https://www.secomtrust.net/>

REMOTE PC ARRAY



----- Remote PC Array Specifications -----

Dimensions (mm)	1U 43.8(H) × 430(W) × 736.6(D)
Weight	Max. weight 13.5kg (Including 20 cartridges fully loaded, 2 power supplies installed)
Power	Hot-swap 350W ×2 Duplication
Power consumption	Dual Core: the biggest 264W / Quad Core: the biggest 314W
Built-in components	20 x Cartridge, 1 x KVM switch, 1 x Ethernet switch, 1 x Local Management Console (ACM) ×1



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.