Security Zone that Presented Initiatives Based on the New Concept Being Undertaken with Collective Effort of the Entire Group

Interest in information security rose significantly at the "iEXPO2006" compared with the past. Among those who visited our booth were not only people who work in corporate organizations for information systems, but also people from general affairs. We believe that by allowing visitors to examine the actual products, which embody the new security architecture concept "Cooperative Security," they could easily perceive the way information security ought to be in the ubiquitous era. We also offered "Security Zone Observation Tours" designed to give an overall outline of our security concept, which received positive feedback from those who participated. They have received further details on individual products, systems and services from our staffs.

NEC Group will continue to enhance and broaden the range of "Cooperative Security," proposing collaborative solutions for individual strategies, while forming alliances with business partners to support "Peace of Mind" for our customers.

More Enterprises Tackle Security Measures on the Corporate Level

Our security measures using the collective strengths of the NEC Group were available for viewing at the booth with the theme of “Risk Management,” emphasizing one of three management principles presented by NEC at the “iEXPO2006,” held on the 6th, 7th and 8th of December 2006.

Physical security measures, measures of information leakage prevention on PCs and servers, measures against malicious intrusive attacks to servers, measures implemented with on networks, such as prevention for unauthorized access to networks, as well as security diagnosis and security clinics, were presented at individual booths for products, systems and services. Visitors were able to understand the overall picture at these booths one by one.

At the exhibition, a trend indicating a high degree of interest in security measures was prominent. In the past visitors to security related exhibits were primarily comprised of individuals working in corporate organizations that handle information systems. Perhaps due to the fact that the leaking of information has a great impact on the performance and continued existence of enterprises, as well as the necessity for them to enhance internal control, many visitors who work in corporate organizations relating to general affairs, administration, management planning and accounting, revealed the stance of businesses prepared to undertake full-scale corporate-level security measures as an agenda for management.

In order to facilitate a deeper understanding by this large number of visitors in the Security Zone, we provided “Security Zone Observation Tours.” The staff explained the outline of the security measures periodically to the visitors and received positive feedback. These tours were held once every half hour, 33 times in total throughout the three days of the exhibit, with participation by over 1,000 visitors (Photo 1).

Furthermore, the visitors working for corporate organizations in particular who deal with information systems or had a special interest in individual products or systems were eagerly obtaining additional descriptions from our staff on hand at individual booths.

“Cooperative Security,” A New Concept Proposed by NEC

NEC introduced a new direction with, “Cooperative Security.” The pivotal and most important theme for the exhibition was for visitors to gain a good understanding of what NEC intends to realize, through the exhibits of individual relevant products, systems and services.

First of all, security measures are not merely intended to guarantee only security, but rather, they are expected to create a productive environment wherein people can concentrate and be absorbed in their work, free of anxiety.

We are all well aware that nowadays protection against attack from external sources is not enough as it is also necessary to implement strategies to rule out problems that can potentially be triggered by individuals on the inside. Unfortunately how-
ever, it is also true that security strategies for resolving such issues have not necessarily kept up with faster revolution of computer and network technologies. Security strategies of the past were considered adequate when individual measures were taken for either computers or networks but they are no longer sufficient today, with the unification of computers and networks creating a single system for users as well as attackers.

Most enterprises are aware of this situation and do recognize that effective security measures must be implemented in some way. Furthermore, numerous products for individual measures allow many enterprises to implement their individual measures from time to time. However, based on the consistent definition of security measures, maintaining the guarantee of security at specific levels has become difficult, as the environment surrounding information systems grows complex and in wide range.

Considering this situation, NEC innovates in security market with “Cooperative Security,” recognizing that what enterprises really want is not a collection of individual measures but a means to realize peace-of-mind security with combined individual measures by removing pitfall of security vulnerability generated between independent measures.

More specifically, “Cooperative Security” is an architecture that sustains and improves the overall security of an organization through the dynamic cooperation of individual security measures, such as anti-virus or server security implementations. For instance, when a client’s PC commits a security policy violation, it is possible to realize measures that involve the coordinated implementation of individual solutions by cutting off connections to external networks immediately, temporarily prohibiting access to file servers or suspending the use of email software (Fig. 1).

### Representative Products That Realize “Cooperative Security”

A product that drew attention as embodying “Cooperative Security” is “InfoCage,” our software for information leakage countermeasures. By sharing the “authentication,” “access control” and “history logs” of security, “InfoCage” can dynamically implement coordinated security measures for a wide variety of items from paper documents in the office to electronic data and the network.

The “InfoCage/PC Security,” which has been released as the first product of the series, as well as the “CapsSuite/PC Quarantine System,” software for implementing preventative measures against cyber attacks, were both presented at the exhibition.

We are planning to enhance the range of “InfoCage” products in order to realize “Cooperative Security” for each area of a client’s PCs, files, servers, networks and management.

**1) Client Computer Security Product “InfoCage/PC**
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Security Initiatives of NEC Group

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This all-in-one client computer security software incorporates comprehensive information leakage countermeasures for a client's PCs. It provides authentication, authorization, stop and resume functions to control the commands of unauthorized applications, to disable printers and USB memory, as well as data encryption and the management of accurate security related history logs. It is a product with sophisticated functions and can be used to thoroughly implement organizational security all on a single PC to the extent that it would be sufficient to pass security audits, as its features cover the entire flow comprised by a series of security implementations, starting from setting policies to their thorough implementation, as well as forensics management.

(2) Cyber Attack Protection Measure Software “CapsSuite/PC Quarantine System” (Fig. 3)
NEC adopted the concept of “PC Quarantine” ahead of the rest in the industry and incorporated it in the “CapsSuite” system, which realizes “management by counting” through a quantitative understanding and quantifying the security status of connected devices on the intranet. More specifically, PCs that do not satisfy the implemented security policies are not connected to the job network. It is also possible to apply appropriate security patches or the latest policy files to such PCs before connecting them to the network. Furthermore, there is no need to install any agents on a client’s PCs, making it possible to implement the software easily and at a low cost. Phased implementations can start on a small scale and work up to a larger scale.

Numerous Security Measure Products Offered by NEC Group

A wide variety of product groups were available for viewing at the exhibition, including products by the NEC Group, such as products relating to the security of PCs, servers, files, networks, as well as physical security and security consultations. The main features at the exhibit were the following:

(1) Security Measure Products and Systems for PCs, Servers and Networks
- Security management through visualization, “CapsSuite”
- Appliance products, “InterSec/NQ30b, WebSAM SecureVisor” for the prevention of unauthorized connections...
A product with comprehensive client computer measures that realizes organizational security management
(1) Features support the entire flow comprised by a series of security implementations, starting from the setting of policies to forensics management.
(2) Realization of accurate security log management for forensics management.

Fig. 2  PC Security Version 1.0.

"PC Quarantine System" to suit the scale and environment of customers
• Implementation suits the environment and scale of a customer’s site through cooperation of the software with network products.
• Software can support small-scale to large-scale corporate implementations.

Fig. 3  Configuration of CapsSuite/PC Quarantine System.
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(1) Information Security Initiatives

- Spam mail preventative measure implementation service
- Integrated ID management solution for realizing internal control
- Irregular transactions and unauthorized accounts monitoring solution, “Account Protector”

(2) Physical Security Products and Systems

- UNIVERGE Employee identification IC card solution
- Fingerprint -authentication-unit, “SecureFinger”
- Multiple authentication entrance/exit control system, “BiodePass”
- Physical security solution, “Integrated Monitoring System” and “High-Sensitivity EMCCD Camera”
- UNIVERGE Physical security solution

(3) Diagnostics, Consultations and Operational Services

- Security diagnostics and monitoring solutions
- Web application security management service, “WAF Operational Service” and “WAF Diagnostic Service”

(4) Sample Exhibits, Research and Development

The following exhibited items were selected from sample products and research subjects close to product commercialization:

- Sophisticated video monitoring solution, “Distrust Action Monitoring System”
- “Information Leakage Risk Management System”

A particularly large number of visitors viewed and were interested in demonstrations of the Flapper Gate that uses biometrics authentication (Photo 2), as well as various ID management products with an authentication base and PC security products that fortify PCs, along with monitoring products, which reveal a user’s status. Furthermore, our impression was that there is an extremely large need for consultation and security diagnostic services from NEC, a company proficient in both IT and networks.

Moving from Partial Optimization to Overall Optimization while Enhancing Collaboration with Business Partners

NEC has seen the coordinated implementation of solutions to be a way to improve security levels in practice, resulted in the introduction of their concept “Cooperative Security.” NEC recommends eliminating “Blind Spots” by implementing individual solutions independently, such as those for “Physical Security” and “Information Leakage Countermeasures,” “Physical Security” and “Network Security,” as well as “Network Security” and “Preventative Measures against Cyber Attacks.” Furthermore, NEC intends to realize further enhanced “Cooperative Security” by seeking coordinated implementation of not only products offered by the NEC and its affiliates, but also products available from their business partners. The cooperative securities between InfoCage and the business partners products, such as “Antivirus” software from Trend Micro, the “email security” solution from Clearswift and the document management system from KOKUYO S&T, are all representa-
tive examples of such collaborative efforts. NEC intends to continue enhancing alliances with business partners.

We believe that our exhibits made it possible for visitors to see that the manner in which security solutions are offered can vary from those that can be implemented immediately on products to those which require customer consultation and diagnosis to build a system for their purpose, in all cases offering solutions to suit the current situation of our customers.

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