

Launch of sales for a “Hard Disk Encryption Solution” that uses IC cards

Total support for information leak prevention solutions through a combination with IC cards

Toppan Printing Co., Ltd. (hereafter Toppan Printing; Head office: Chiyoda Ward, Tokyo; President & CEO: Naoki Adachi), NCL Communications K.K. (hereafter NCLC; Head office: Chuo Ward, Tokyo; President & CEO: Takashi Sekine), Pentio Co., Ltd. (hereafter Pentio; Head office: Shinjuku Ward, Tokyo; President: Haruhiko Hasegawa) and Giesecke & Devrient K.K. (hereafter G&D Japan; Head office: Minato Ward, Tokyo; President & CEO: Dr. Roland Savoy) have developed a “Hard Disk Encryption Solution” that uses IC cards. Sales will be launched in February 2009.

With the advancement of information communication technology, today companies store various information assets as electronic data and the number of occasions when employees take such data outside the workplace is increasing.

This solution enables a high security framework through the combination of WinMagic’s “SecureDoc” hard disk encryption products and Toppan Printing’s “SMARTICS Hybrid IC Card (hereafter Hybrid IC Card)”, an IC card with contact and contactless functions that is part of the company’s lineup of card products used for employee and student ID cards. SecureDoc boasts 3 million licenses around the world including the U.S. Department of Defense. Toppan Printing is one of a small number of manufacturers that is able to provide a Hybrid IC card compatible with SecureDoc and now the industry leading provision of this solution has become possible through cooperation with NCLC, the general agent for SecureDoc in Japan; Pentio, which sells the private certificate authority appliance (Gléas); and G&D Japan, which sells IC card modules.

Toppan Printing will sell this solution and commence provision as an information leak prevention solution for client PCs connected to an organization’s computer network.

Background

As a decrease in the working population is predicted due to the declining birth rate and ageing population, in order to achieve its target of 20% of the working population being teleworkers by 2010, in May 2007 the government devised an action plan for doubling the number of teleworkers and is promoting the spread of telework. The main forms of telework are considered to be employment type / at home type (where work is performed at the employee’s home), mobile type (where work is performed at a customer’s workplace or whilst traveling on a train etc.) and facility use type (where work is performed at a facility such as a satellite office).

In each of these cases a computer is used outside the office, and since there is an increased risk of information leakage due to loss or theft, it is necessary to implement security measures for individual computers and to store confidential data with encryption.

Extract from “*Guidelines for Telework Security (2nd edition)*” issued by the Ministry of Internal Affairs and Communications.

The features of the “Hard Disk Encryption Solution” using Hybrid IC Cards

- ① **Prevention of information leaks through the encryption of entire hard disks and removable media.**
Since SecureDoc encrypts everything on a personal computer’s hard disk, all files are encrypted regardless of whether they have a high or low level of confidentiality. It is also possible to encrypt the OS, system files and removal media such as USB flash memory.
- ② **Enhanced security through 2 factor authentication with a Hybrid IC Card and password**
A double authentication system with a Hybrid IC Card and password can be realized through a combination of the Hybrid IC Card and SecureDoc. Since the IC card authentication for SecureDoc is performed at the BIOS level before the OS boots up, if the user cannot be authenticated, the computer does not start up. Even if the hard disk alone is taken from a lost or stolen computer and the data is accessed by a third party, it cannot be read.
- ③ **Prevention of information leaks via means such as email through file encryption**
It is possible to encrypt data in individual file units. It is also possible to encrypt shared files and data attached to emails.
- ④ **Remote access security**
It is possible to construct a secure environment for access via the internet by combining an SSL-VPN device and a certificate.
- ⑤ **The Hybrid IC Card with contact and contactless functions can be used in various situations**
Examples of applications:
 - Contact IC: Hard disk code (SecureDoc), remote access security (SSL-VPN) etc.
 - Contactless IC: Entry and exit management, electronic money, cashless canteen, document security etc.

The roles of the companies

- Toppan Printing: Manufacture and issuance of IC cards, sales of various applications
- NCLC: General agent for SecureDoc in Japan
- Pentio: Sales of private certificate authority software (Gléas)
- G&D Japan: Sales of IC card module and related middleware

- SecureDoc is a registered trademark of Canada’s WinMagic Inc.
- Pentio Co., Ltd. has a pending registered trademark application for Gléas.

Important Note: This item is not available for sale in the United States at this time. For more information, please contact Nori Fuji at 732 469 8400 ext 2501.