

Where there is mobility, there is security

WHO

SecurSoftware® specializes in security applications and consulting for Microsoft Windows®-based desktops and servers.

WHAT

SecurLock® is a comprehensive, easy-to-use desktop application that protects information from unauthorized access. Through access control, encryption, a data shredder application and password management, SecurLock preserves data integrity and confidentiality.

WHY

Wireless mobility requires security measures to protect data being sent over public airwaves. The convenience of SecurLock makes it a natural for use by mobile laptop users.

WHY INTEL

Intel is a significant sponsor of wireless initiatives, including those in the Middle East spearheaded by SecurSoftware.

VALUE PROPOSITION

The rapid adoption of wireless PC connectivity has created the need for simple but comprehensive security applications. With more than 30,000 public Wi-Fi hotspots verified with common notebook configurations of Intel® Centrino™ mobile technology worldwide, people on the go can access online services at the corner coffee shop, library, hotel, airport, public transit system—or even the ball park¹. However, with mobility comes the challenges of protecting data on mobile devices and securing information sent over public wireless networks.

First of all, today's wonderfully small and lightweight laptops are particularly vulnerable to being lost or stolen. We have all read news reports of sensitive data being left on a laptop that has gone missing. Many of us have experienced the anxiety of wondering where we left our laptop. If you lose your laptop, sensitive and confidential data on the hard disk could be compromised. Not a pleasant thought. Thus, protecting data residing on mobile devices is important for all businesses and government agencies.

Another threat to mobile users is intercepted e-mails sent over wireless networks. Obviously, unsecured mail and attachments sent over a public network can be viewed by others.

The key to solving these challenges is to take a comprehensive approach that addresses a wide range of threats. Also, to be effective, security measures must be automatic yet unobtrusive for users. If security requires users to take action, it will sometimes be forgotten. Fortunately, such a solution has been developed by SecurSoftware, a company specializing in security applications and consulting.

SOLUTION OVERVIEW

While the threats are varied, the solution is simple. SecurSoftware offers a comprehensive product to secure a wireless PC network and enhance your security when you are on the go. SecurLock is designed to make security transparent to mobile users. It consists of a smart card and software that protects the data on a PC as well as outgoing email attachments. There are four primary functions of SecurLock:

Secure authentication: By replacing the traditional username and password login provided by Windows with a USB smart card-enabled login, SecurLock adds another layer of security and convenience. The PC cannot be used unless the smart card is plugged into the USB port. When a user first makes a wireless connection, the smart card provides a very secure manner of authentication. If the user needs to leave the laptop for a short time, simply unplugging the smart card locks the computer until the user returns. No one can view the data or use the computer. The high level of convenience makes this a very effective approach.

Protect stored information: If a laptop is lost or stolen, private and confidential information can be viewed. To prevent this, SecurLock automatically encrypts the files stored on the laptop so only authorized users can access them. This process takes place without any involvement by the user. The way normal Windows functions are used is not changed—it is completely transparent to the user. The encryption system extends to files sent by email. SecurLock enables the user to send an encrypted attachment. The file is self-extracting so the recipient does not need to have SecurLock. All that is needed for the recipient to unlock the file is the secret key provided by the sender.

“We are looking to revolutionize our methods of education.”

– Wajdi Najem
Dean of Engineering
St. Joseph University

Password management: This feature keeps track of all the user names and passwords owned by a user. Not just a convenience, this feature enables many passwords to be used conveniently. The logon profiles are stored on the USB smart card, so they are portable; they can be used on any computer simply by plugging in the smart card. After a single sign-on to the laptop, SecurLock provides the correct user name and password to all the systems and applications that need them. The user simply drags the user names and passwords from the password management window onto the respective application or Web site. This eliminates the need to remember the ever-increasing number of user names and passwords that have become so necessary today.

Data shredder: Users can permanently dispose of confidential information by simply dragging files or folders to the shredder icon. Files deleted with SecurLock cannot be restored by data recovery tools and low-level disk utilities, so users can be sure they are really deleted. Another feature makes it easy to delete all temporary files on the computer (document history, cookies, Web browser history and so on) so there is no record of the user's activities on the computer.



SecurLock is a comprehensive security product for wireless users

Case study: St. Joseph University in Beirut
“Intel is making a large commitment to establish wireless Internet links in many places around the world,” says Gilbert Lacroix, Intel President of Middle East and North Africa. “Of course, security has been an issue raised by many people regarding wireless. Fortunately, SecurSoftware has a product that helps

make Wi-Fi more secure. Intel has teamed with SecurSoftware worldwide to encourage Wi-Fi access, with an initial project in the higher education sector in Lebanon.”

To kickoff the joint initiative, SecurSoftware partnered with several local firms to create a Wi-Fi network on the engineering campus of St. Joseph University in Beirut, Lebanon. Interestingly, the first Wi-Fi campus in the Middle East is also the oldest campus in Beirut. The university has the largest engineering student body in Lebanon. Intel and SecurSoftware decided to embark on the project in October 2003. The installation of the Wi-Fi network infrastructure took only three weeks.

The wireless capability has obvious advantages to students. If students need to research a topic, they can go online from almost anywhere on campus. This is not just more efficient, but it encourages students to do more research and to be better prepared for class.

But the university staff sees wireless as the foundation for a future e-learning system at the university. “We are looking to revolutionize our methods of education,” says Wajdi Najem, Dean of Engineering at St. Joseph University. “The Wi-Fi installation completely changes the whole teaching system.”

The St. Joseph project is expected to have a large impact throughout the country. Internet access is not readily available in Lebanon today. So people need to go to an Internet café or work at home to gain access. Thus, providing wireless in the university environment is particularly useful and benefits a large number of people. Adds Patrick Abi Aad, SecurSoftware VP of Business Development, “Students of today are the leaders of the future. By giving them experience with wireless computing in college, we are preparing them to be more productive for the rest of their lives.”

The next question was how to get the students to commit to buy the laptops needed to access the network? Says Abi Aad, “We knew that we would provide the most value to students if we supplied a complete package of services. Therefore, we partnered with HP, a local ISP and a local bank, Credit Libanais, to create an attractive package for students.” Thanks

to discounts from HP and financing from the bank, packaged systems are available to students at a cost of only \$58/month for three years. The package is a complete high-end system, consisting of the following components:

- HP Compaq nx 7000 with Intel Centrino mobile technology
- SecurLock security application
- Three-month Internet connection
- Laptop case

SecurSoftware mounted a very aggressive nationwide marketing campaign to get students throughout the country to sign up—including billboards, magazine and newspaper ads, flyers in bank statements, and e-mails. The laptops are sold at all branches of Credit Libanais plus 50 other locations throughout the country.



SecurSoftware partnered with several local firms to create a Wi-Fi network on the engineering campus of St. Joseph University in Beirut, Lebanon

The program has been quite successful. Says Abi Aad, "In the beginning, we expected to sell about 5,500 laptops during the entire school year—mainly to students with majors in technology. So far, in the first four months, more than 4,500 laptops have been purchased."

In the future, says Abi Aad, "This is a pilot project that we hope to duplicate in many countries in the region—Jordan, Saudi Arabia, UAE, Bahrain, Kuwait, and Turkey. The next step is Europe followed by other parts of the world. We hope to do the same thing in the healthcare sector and some other high-potential vertical markets too. This is made possible by the support of Intel, HP and local banks in each country."

The wireless future in Lebanon is bright

Administrators at St. Joseph have decided to expand the Wi-Fi network beyond engineering to all nine of its campuses. Since the installation at St. Joseph University, four other schools have expressed interest in also deploying a Wi-Fi network at their universities. And beyond higher education, major Lebanese hotels and the airport have also added wireless connectivity. Now the university students with their new laptops will find more places to congregate online throughout the country.

Adds H.E. Jean-Louis Cordahi, Minister of Telecommunications, Republic of Lebanon, "Along with Intel, we hope to provide wireless in many other campuses in our country."

"Students of today are the leaders of the future. By giving them experience with wireless computing in college, we are preparing them to be more productive for the rest of their lives."

– Abi Aad
Vice President of
Business Development
SecurSoftware

ABOUT SECURSOFTWARE— THE COMPANY

Founded in 1999, SecurSoftware specializes in security applications and consulting. The company started by developing custom security applications while acting as an information security consultant for companies in the financial services sector. Then, seeing the growing need for comprehensive security solutions for mobile workers, SecurSoftware began to develop commercial security software. That provided a basis for growth and today the company has offices in the U.S., Chile, France, Lebanon and Dubai.

Two primary products are available today. SecurLock, the topic of this Solution Profile, is designed as a comprehensive security application for desktop and mobile PCs running the Windows operating system. SecurXT® is an enterprise security solution that integrates into Windows Active Directory.

SecurLock was released in early 2003 and is sold globally by distributors in more than 30 countries. The company also provides custom programming services and is a contractor for Microsoft security applications in the Middle East and Africa.

SecurSoftware integrates a broad range of technologies to create security infrastructures. Hardware-based authentication (the USB smart card) is at the heart of the software design. SecurSoftware uses Rainbow Technologies iKey* smart card. For encryption, SecurSoftware uses peer-reviewed algorithms such as AES, RC4 and Blowfish.

Intel Technology

Intel® Centrino™ mobile technology



THE INTEL ADVANTAGE

Intel Centrino mobile technology enables a new generation of thinner and lighter notebooks with great performance and battery life¹. Client-side security is an essential part of enterprise security. Intel Centrino mobile technology supports a wide range of industry wireless LAN security standards and leading third-party solutions.

Intel works closely with SecurSoftware to assist in optimizing SecurLock for Intel Centrino mobile technology-based laptops.

TAKING ACTION

To find out more about SecurSoftware, visit www.secursoftware.com

To learn more about Intel® Centrino™ mobile technology, visit www.intel.com/products/mobiletechnology/

¹ Wireless connectivity and some features may require you to purchase or download additional software, services or external hardware. Availability of public wireless LAN access points is limited. System performance, battery life, wireless performance and functionality will vary depending on your specific hardware and software configurations. See www.intel.com/products/centrino/more_info for more information.

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