

## Your network safeguard

**GemSafe Libraries from Gemplus is smart card-based crypto-library software that brings portability and the highest level of security on corporate and government networks. It provides the perfect complement to your network security implementation by storing digital identity credentials on a personal smart card.**

### Trust on corporate networks

Organizations today face a continuous stream of business opportunities. To take advantage of these, corporations and governments need to leverage new technologies such as remote access, intranet/extranets, and B2B. If the network security is inadequate to build the confidence necessary for a trusted working environment, efficiency can be compromised. GemSafe Libraries delivers an easy-to-use smart card product designed to secure all network communications, allowing you to enforce new technologies in order to expand your business.

### Reinforcing your security policy

GemSafe Libraries allows organizations to strengthen their security policy by controlling the information flow between employees, partners, customers, and suppliers, resulting in escalated productivity and increased profitability. It provides an easily integrated security system that delivers all key functions required for safe network access and communication:

- Secure smart card logon and authentication for Windows 2000/XP/2003
- Smart card enabled digital signing and encryption of e-mail through Microsoft® and Netscape® suites
- Smart card enabled digital signing of Adobe and MS Office documents



### Protecting identity credentials

GemSafe Libraries offers the highest level of security, using public-key cryptography to store the digital identity on a smart card instead of a PC where it is vulnerable to hackers. PIN (Personal Identification Number) codes ensure proper identification while the microprocessor on the card transparently carries out user authentication. GemSafe Libraries acts to unlock the potential of software-based PKI (Public Key Infrastructure) by achieving two-factor authentication; something you know – the PIN, and something you have – the card.

Furthermore, it integrates seamlessly with Microsoft Windows 2000/XP/2003 security systems and applications, and supports the latest standards for secure web access (SSLv3, TLSv1) and e-mail (S/MIME).

### Portability

With GemSafe Libraries, users can store their identity and confidential information on a smart card, for complete portability. Traveling with your electronic identity in your pocket, network services provided via VPNs or wireless LANs can now be accessed simply and securely from any GemSafe-equipped PC in the world.



### How it works

The GemSafe Libraries middleware is installed on your PC equipped with a GemSafe smart card and reader. Once installed, applications supporting either PKCS#11 or CSP, can use this middleware to access the GemSafe smart card and use the securely stored credentials in order to perform strong authentication, signatures and ciphering functions. It also includes a GemSafe Toolbox that provides a user-friendly interface with:

- Administrator tools to define user configuration (PIN policy, security options etc.)
- User tools to change/unblock PIN, view card contents and more

### Technical specifications

#### Operating Systems

- Windows 98SE/Me/NT SP6/2000/XP/2003

#### Smart cards\*

- GemSafe GPK 8-16KB
- GemSafe Xpresso 16-64KB (on-board key generation up to 2048 bits)

#### Card readers\*

- GemPC USB/Serial
- GemPC Twin (USB and Serial)
- GemPC Card (PCMCIA)
- GemPC Key (USB Token)
- Gem e-Seal (USB Token)

\* All components are PC/SC compliant

Based on to GemSafe Libraries, Gemplus' security software suite also includes **GemSafe Logon** for password management and **GemSafe eSigner** for digital signatures. We also offer a wide range of consulting, implementation and training services to develop and deploy network security solutions.

For more information contact your local Gemplus sales office at: [www.gemplus.com/contact](http://www.gemplus.com/contact)