



# SafesITe™ PIV Client

FINANCIAL SERVICES & RETAIL

ENTERPRISE

INTERNET CONTENT PROVIDERS

PUBLIC SECTOR & TRANSPORT > PRODUCT

TELECOMMUNICATIONS



# SafesTe PIV Client is a smart card-based software library that brings portability and the highest level of security to government networks while ensuring HSPD-12 compliance.

**It enhances network security by enabling the use of personal identity credentials securely stored in SafesTe PIV smart cards.**

## > Trust

Organizations today face a continuous stream of operational and security challenges. To effectively manage them, government agencies need to leverage technologies such as VPNs, intranet/extranets and Public Key Infrastructure (PKI). If network security is inadequate to support a trusted working environment, security can be compromised and operations can be disrupted. SafesTe is a strong authentication solution that enables organizations to manage access to physical and network security systems through the use of a single employee identity credential. It includes a family of interoperable smart cards, readers, application libraries and server software. SafesTe protects against unauthorized network access and online identity theft and it supports certificate-based services for digital signature, e-mail and document encryption, and secure remote access.

## > Full Compliance with New Regulations

With SafesTe PIV Client, government entities can leverage their investment in employee identity solutions and comply with new security mandates. They benefit from a product that has been developed in conjunction with other SafesTe FIPS 201-compliant products. All solution components have undergone extensive testing by external laboratories for compliance with the FIPS 201 standards and are approved by the US General Services Administration.

## > Reinforce Your Security Policy

SafesTe PIV Client allows organizations to dramatically increase their productivity by improving the information flow between employees, partners, and suppliers without compromising security. SafesTe strong authentication supports identification and non-repudiation and also enables traceability and accountability. SafesTe PIV Client software delivers easily-integrated security applications with all essential functions required for safe network access and secure communication:

- Smart card logon and authentication for Windows® 2000, XP, Server 2003, Vista™ and Citrix®
- Smart card enabled digital signing and encryption of e-mail through Microsoft®, Firefox® and Netscape® platforms

- Smart card enabled digital signing of Adobe Acrobat and Microsoft Office documents

## > Protecting identity credentials

SafesTe PIV Client offers the highest level of security, using public-key cryptography to store the users' identity credentials on the smart card instead of the PC where they are vulnerable to theft. PIN (Personal Identification Number) codes validate authorized users while the microprocessor on the card transparently authenticates users to the remote server. SafesTe PIV Client facilitates the use of software-based PKI (Public Key Infrastructure) using two-factor authentication that incorporates something you know - the PIN - and something you have - the SafesTe PIV card. Furthermore, it can be seamlessly integrated with Microsoft Windows 2000, XP, Windows Server 2003, Vista security platforms and applications, Citrix and also supports the latest standards for secure web access (SSLv3, TLSv1) and e-mail (S/MIME).

## > Portability

With SafesTe PIV Client, user identity credentials are stored in the SafesTe PIV 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 SafesTe PIV-enabled PC in the world.

## > How it works

SafesTe PIV Client is installed on the user's PC equipped with a SafesTe PIV smart card and reader. Once installed, applications supporting either PKCS#11 or MS-CAPI use the middleware to access the SafesTe PIV smart card and the securely stored credentials in order to perform strong authentication, digital signature and encryption/decryption. The SafesTe PIV Client also includes a toolbox that has a user-friendly interface for:

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

## > Technical specifications

### Capabilities

- RSA public key cryptography (RSA up to 2048 bit keys, SHA-1)
- SSLv3 client authentication for secure web access (using X.509 certificates)
- S/MIME digital signature and 40-bit encryption for secure e-mail
- MS-CAPI enabled for use with Microsoft Internet Explorer, Microsoft Office and Microsoft Outlook Express
- PKCS #11-enabled for use with Firefox and Netscape
- Onboard key generation
- External loading of keys and certificates
- User Setup management: create specific user set-up packages for deployment
- Certificate management: certificate automatic registration, view, import, export and delete
- PIN management: PIN policy, change PIN at first use, change and unblock PIN tools

### Hardware requirements

- PC-compatible computer with a Pentium-class processor, or higher
- Port to enable connection of a PC/SC-compliant reader (USB, PC Card, PC Express and Serial)
- Linux Redhat and Debian Etch (PKCS #11 Interface only)

### Operating Systems

- Windows 2000, XP, Server 2003 and Vista Smart cards
- SafesTe PIV Trusted PKI Card
- SafesTe Classic Trusted PKI Cards

### Card readers\*

- Gemalto PC
- Gemalto PC Twin (USB and Serial)
- Gemalto PC Card (PCMCIA)
- Gemalto PC Key (USB Token)
- Gemalto PC Express

\* All components are PC/SC compliant

### Standards compliance

- MS-CAPI V2.0
- PKCS#11 v2.01