

# Thales Smart Cards and USB Tokens for Digital Signature



Streamline business processes and reduce time and costs associated with traditional paper-based document signing

As organizations move from paper toward digital business processes and initiatives, Thales PKI solutions are secure, portable, and simple-to-use and streamline business processes, while reducing the time and costs associated with traditional paper-based document signing. Thales users can digitally sign documents, files, forms, and transactions anywhere using SafeNet eTokens or SafeNet IDPrime smart cards as the Secure Signature Creation Device (SSCD) to ensure compliance with regulatory requirements, and seamlessly transition towards a paperless office environment. Using Thales smart cards and USB tokens guarantees signer authenticity and the data integrity of documents in a manner that is secure and easy to deploy and manage.

## Proving authenticity

“Wet” signatures have served as the validators for document authentication for thousands of years. A slow and inefficient process (especially when factoring in time and distance), “wet” signature requirements are quickly becoming legacy. Whereas with a wet signature, the signatory process is typically witnessed, in a digital world the identity of the user is verified at the time of issuing a digital identity. Using Thales smart cards and USB tokens adds assurance to the process as every signature is being verified with the authority at any given moment. The validated identity provides the user with greater ability to control when and how their signature is used

and removes the need to be physically present. Digital signature with smart cards and tokens uses a certificate-based identity to verify authenticity and sign digital documents, and is an efficient, environmentally friendly and less expensive way to do business.

## Benefits of Digital Signatures with smart cards and USB tokens

- Easy to use
- Expedite business processes
- Paperless office
- Legal compliance

## Advantages of digital signature with smart cards and USB tokens

### Streamline business processes

Replace handwritten signatures and paperwork, and reduce approval process timelines for multiple authorizing signatures.

### Paperless office

Reduce costs associated with traditional paper-based processes (i.e., paper, printing, ink, faxing, postage, and processing time).

## Compliance

Using standards-based digital signatures and X.509 certificates in accordance with regulatory guidelines enables the integrity of documents to be maintained.

## Non repudiation

Digitally signed documents and transactions are sealed electronically, providing evidence of signer and document authenticity and guaranteeing document integrity and thus are resistant to fraud and tampering. Using a hardwarebased device ensures users the private keys are generated inside the device and are never exposed outside the hardware token or smart card.

## High assurance

With PKI-based trusted smart cards and USB tokens, the level of assurance is typically higher than that of electronic signatures protected only by a password. Standards-based Thales PKI solutions enable compliance with security and privacy standards. Our products are certified according to US regulations (FIPS 140-2 Level 3) or European regulations (CC EAL5+ / PP SSCD) to provide a powerful, dependable, and interoperable digital signature solution. Thales offers FIPS 140-2 validated solutions with a PKI Client standardsbased middleware that enables smooth integration with other applications and making them compatible with any environment, including Mac OS, Linux, iOS, and Android.

## Portability

Users who want to digitally sign or secure documents need only select the digital certificate that is stored on the SafeNet eToken or SafeNet IDPrime smart card. This process enables users to create certified documents that authenticate their identity and validate their integrity. Since users carry their certificates and credentials with them on a convenient-to-use device, Thales products provide an easy and fully portable way to securely sign documents. This hardware-based approach allows users to use a PKI-based smart card or token to securely digitally sign documents from anywhere, eliminating the challenges of other signing solutions that tie credentials to a singular computer or laptop while ensuring the validity of the signature.

## All-in-one convenience

In addition to digital signature, Thales PKI-based smart cards and USB tokens can provide multiple security functions in one device. For example, smart cards can be used for authentication, endpoint protection, digital signature, email encryption and physical access to buildings and secure areas.

Thales's SafeNet Authentication Client middleware is integrated with many commercial digital signature applications, such as Adobe. As well, customers can use SafeNet Authentication Client's PKCS#11 library to develop custom applications.

# About Thales's SafeNet Access Management and Authentication Solutions

Thales's industry-leading Access Management and Authentication solutions let enterprises centrally manage and secure access to enterprise IT, web and cloud-based applications. Utilizing policy-based SSO and universal authentication methods, enterprises can effectively prevent breaches, migrate to the cloud securely and simplify regulatory compliance.

## About Thales

The people you rely on to protect your privacy rely on Thales to protect their data. When it comes to data security, organizations are faced with an increasing number of decisive moments. Whether the moment is building an encryption strategy, moving to the cloud, or meeting compliance mandates, you can rely on Thales to secure your digital transformation.

Decisive technology for decisive moments.

> [thalesgroup.com](http://thalesgroup.com) <    

**Americas** – Arboretum Plaza II, 9442 Capital of Texas Highway North, Suite 100, Austin, TX 78759 USA • Tel: +1 888 343 5773 or +1 512 257 3900 • Fax: +1 954 888 6211 • E-mail: [sales@thalessec.com](mailto:sales@thalessec.com)  
**Asia Pacific** – Thales Transport & Security (HK) Lt, Unit 4101-3, 41/F, Sunlight Tower, 248 Queen's Road East, Wanchai, Hong Kong • Tel: +852 2815 8633 • Fax: +852 2815 8141 • E-mail: [asia.sales@thales-esecurity.com](mailto:asia.sales@thales-esecurity.com)  
**Europe, Middle East, Africa** – Meadow View House, Long Crendon, Aylesbury, Buckinghamshire HP18 9EQ • Tel: +44 (0)1844 201800 • Fax: +44 (0)1844 208550 • E-mail: [emea.sales@thales-esecurity.com](mailto:emea.sales@thales-esecurity.com)