Trust SEC

PKI TOKENS

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PKI Tokens

PKI Tokens Overview

TrustSec PKI Token is a small and convenient USB device used in different security applications and solutions. PKI Token is mainly used in **System Authentication** and Digital Signature in order to securely sign digital data. TrustSec PKI Token is compliant with international standards to reach the maximum quality.

TrustSec PKI Token is the state-of-the-art security system for both individuals and corporates. It provides the maximum protection for both sensitive data and security operations.

Why Choose TrustSec PKI Token?

Easy to use
TrustSec PKI Token is an HID device, which means that it doesn't require any drivers to work. The Plug and Play nature gives ease of use and installation during deployment within any environment.

International Standards Compliance
Compliant with different tools and third-party software as PKCS#11 and Microsoft CSP. International standards cover: PKCS (1, 5, 7, 8, 10, 11, 2.2 and 12), X5.09 Certificates, CSP and FIPS 140-2-L2

Secure storage
Secure and encrypted Hardware Storage that keeps all users' keys and certificates secure against any third party attack

Compatibility
compatible with Windows and Linux Platforms and easily integrated with any certificates issued from international and trusted third-party CAs.

What is System Authentication?

System Authentication is the operation of user logging into any system. The system can be Operating System, VPN, Network, and Websites. System Authentication strength depends on the factors of authentication

There are three factors of authentication

Some thing you **KNOW**

Some thing you **HAVE**

Some thing you **ARE**

One Factor Authentication: User authenticates using password only. This is considered non-secure.

Two Factors Authentication: User authenticates using Hardware Device with PIN (e.g. PKI Token). This is considered a secure authentication.

Three Factors Authentication: User authenticates using Hardware Device with PIN and Biometric property of the user (e.g. PKI Token with Fingerprint). This is considered the most secure authentication.

Solutions

TrustSec PKI Token can be integrated in different solutions to provide all Digital Signature and User Authentication operations.

Email & Document Security

Email & Document security is considered an important issue on both organizational and personal level. PKI Token can be easily integrated to provide full security to Email and Documents. Security operations include adding personal Digital Signature and Encrypting Emails and Documents. TrustSec PKI Token is easily integrated with different Mail Clients and Document Applications.

"*Microsoft Outlook, Thunderbird, Acrobat PDF …*"

Windows & VPN Secure Authentication

System Authentication is considered a very critical operation within any organization. TrustSec PKI Token can be integrated within Windows™ domain, so that user can login using PKI Tokens instead of Passwords. This can be also applied to VPN, which is more critical to the security of the system.

"Windows XP, Vista, 7, 8, 10, Server 2003, 2008, 2012 and 2016"

Web Security

Websites and portal requires many security requirements to overcome different attacks. TrustSec PKI Token provides a solution for Secure Web Authentication replacing standard unsecure methods of User name and Password. TrustSec PKI Token can be used in securing sensitive online transactions (e.g. banking, stock market, online purchasing …)

"IIS 7, IIS 7.5, IIS 8, Apache, ASP.Net, PHP, JSP, SSL Certificates"

How to manage TrustSec PKI Token?

One important feature about TrustSec PKI Token is easy management. Due to its standard interface, TrustSec PKI Token can be managed using TrustSec tools and third party tools. PKI Token management includes PKI Token formatting, setting PIN and Certificate Management.

PKI Token Tools: TrustSec PKI Token is shipped with Administrator Utility and Simplified User Utility.

TrustSec TMS: Token Management System is an Enterprise product used in large organizations for managing TrustSec PKI Tokens. TMS is characterized by its Ease of use and friendly user interface, besides it decreases the administrative effort.

Web Browsers: TrustSec PKI Token is built on international standards, which enables different security modules in web browsers to interface with it. Examples include Internet Explorer™ and Firefox™.

Specification

Support Operating System
Windows (32/64 Bit) XP, Vista, 7, 8, 10, Server 2003, 2008, 2012, 2016 and Linux (32 Bit)

Compatible Applications
Microsoft Outlook, Thunderbird, Outlook Web Access (OWA)

Hardware Interface
Plug and Play USB/HID. No driver is required.

Software Interface
PKCS, CSP, SDK library, SDK JNI and SDK COM

Supported Standards
PKCS (1, 5, 7, 8, 10, 11 2.2 and 12), X5.09, CSP and FIPS 140-2-L2(under evaluation)

Memory Retention
10,000 write cycle and 10 years data retention

Certificate
Entrust Certified

Onboard Cryptography
RSA-1024 key generation, RSA-2048 sign/verify, DES, 3DES, AES, MD2, MD5, SHA1, SHA256, SHA384, SHA512, HMAC and DH

Custom Onboard Cryptography
ECC, DSA, Twofish, Blowfish, Cast, RC4 and RC6

Storage
100 KB, 10 PKI Slots and 40 Symmetric Slots

Session Capabilities
20 Session, 5 PKI Slots, 20 Symmetric Slots

Operating Temperature Range
-25o to 85o C

About TrustSec

TrustSec, is a Polish company established by the hands of Security experts in order to provide the European market with the best-in-class information security solutions & services. TrustSec is one of the international security leading technology companies in Europe. It provides the state of the art and cutting-Edge technology, Professional Consulting, integration and testing solutions relevant to hardware and Software in safeguarding information confidentiality, integrity, and availability.

Partnerships

TrustSec made partnerships with other booming technology leaders in the field of communication and information security to provide integrated highly secure solutions.

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