EVIDEN

cryptovision Pendragon

PKI client for key and certificate processes

In an increasingly digitized world, businesses and government agencies face the challenge of protecting sensitive information and data from the dangers of the digital world. Cyber-attacks, data leaks and unauthorized access are just some of the risks that need to be managed. Cryptovision Pendragon is based on a client-side architecture that interconnects various components to enable efficient PKI implementation. Cryptovision Pendragon enables secure communication and digital signatures using Public Key Infrastructures (PKI) and provides a trusted solution for businesses and organizations in the digital age.

Secure communication

Cryptovision Pendragon ensures secure communication by using asymmetric encryption technology. During encryption, the PKI client uses the recipient's public key to encrypt the data. The recipient can decrypt the encrypted message with his private key and read the confidential information.

Authentication and certificate management

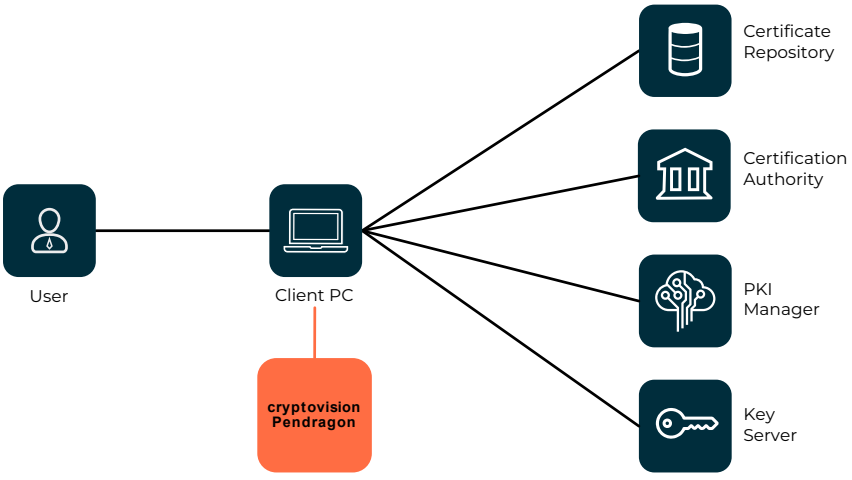
There are various authentication methods Cryptovision Pendragon offers, including the use of smart cards or tokens. These techniques enable secure access to protected systems and data. The PKI client also manages digital certificates that are used to verify identity and ensure trustworthiness. Cryptovision Pendragon supports various certificate standards and enables easy management of certificates, including issuing, revoking and creating certificate chains.

Security mechanisms

Security mechanisms implemented by cryptovision Pendragon to ensure the confidentiality, integrity and availability of data include secure key storage, protection against physical and logical attacks, and mechanisms for the secure management of certificates and keys.

Digital signatures

Cryptovision Pendragon as a cryptovision GreenShield library enables the creation and verification of digital signatures to ensure the authenticity and integrity of electronic documents. When creating a digital signature, the PKI client uses the user's private key to sign the document. The signature is verified with the associated public key to ensure that the document has not been altered and originates from the specified person.



The various architectural parts of cryptovision Pendragon work closely together to ensure a secure and efficient PKI implementation. Certificate management ensures that certificates are handled correctly, while the keystore ensures secure access to private keys. Interface integration facilitates interaction with other systems and enables seamless integration into the existing IT infrastructure.

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Cryptovision Pendragon is based on a client-server architecture in which the PKI client is installed on the users' end devices and communicates with the PKI server. There it offers the following functionalities as a client:

Simplified certificate management

In interaction with cryptovision Shalott, cryptovision Pendragon facilitates the management of digital certificates. It supports automated processes for certificate creation, renewal and revocation. This saves time and resources, reduces human error and ensures a consistent and reliable certificate infrastructure. In addition, cryptovision Pendragon enables seamless integration with existing Public Key Infrastructures (PKI) and other certification authorities.

Security for restricted communication

In conjunction with cryptovision GreenShield, cryptovision Pendragon enables the secure transmission of sensitive data. By using asymmetric cryptography and digital certificates, users can encrypt their data and apply digital signatures to ensure the confidentiality, integrity and authenticity of their communications. This is particularly important for protecting confidential information and complying with data protection regulations.

Identity and access management

Cryptovision Pendragon provides an effective solution for identity and access management. By integrating smartcards, tokens or biometrics, it enables secure and reliable authentication of users. This ensures that only authorized persons have access to protected systems and data. This helps prevent data leaks and unauthorized access.

Compliance and auditability

In interaction with cryptovision Keymaster, cryptovision Pendragon helps companies and organizations to meet compliance requirements and auditability. By using centralized certificate stores and strict access controls, organizations can ensure that the use of certificates is in accordance with applicable policies and standards. This supports regulatory compliance and makes it easier to prove security measures during compliance audits.

Supportive system

Cryptovision Pendragon can be integrated seamlessly with other systems and applications. It supports a wide range of key containers, smartcards and certification authorites to ensure smooth cooperation with existing IT infrastructures. This enables easy integration into existing business solutions and facilitates secure data exchange with partners and customers. As a highly flexible solution, cryptovision Pendragon suits both small businesses and large organizations. It can be customized to meet the specific requirements and growth needs of the client. This allows companies to scale and expand their PKI infrastructure according to their size and requirements without compromising on security.

Standards and technical specifications

Supported operating Systems

- Windows 10
- Windows 11
- macOS Catalina

Supported Keystores

- PKCS#11, PKCS#12
- Java Keystore
- MS CAPI / CNG

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