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Eviden SCinterface RSC

Remote smart card with centralized backend

Eviden SCinterface RSC provides secure access to critical systems without the need for a physical card. Users can authenticate, digitally sign documents, and encrypt data on their devices, all while utilizing centrally stored keys.

As the demand for digital security increases, organizations require robust and efficient authentication methods to protect sensitive information. While smart cards are considered one of the most secure solutions, they come with added complexity and inconvenience. The user must always have the card available for authentication. Additionally, administration becomes more complex, the risk of loss increases, and more plastic waste is generated.

SCinterface RSC offers a powerful alternative, enabling secure access to critical systems without the need for a physical smart card. Instead, it stores

the user's keys on a centralized server—operated with the proven solution Eviden Keymaster—which uses a hardware security module (HSM) for enhanced security. This approach transforms a traditional digital ID into a remote digital ID, simplifying key management by centralizing all keys in one secure location.

SCinterface RSC is an extension of the proven smart card middleware Eviden SCinterface, which supports all major crypto interfaces. It can be integrated seamlessly with the Eviden solution portfolio to enable a wide array of use cases.

Use cases



Certificate-based authentication

Certificate-based authentication, which allows users to securely log in to corporate IT systems. By utilizing digital certificates, employees can authenticate with a higher assurance level compared to traditional methods such as passwords.



Centralized management

A centralized infrastructure based on Eviden Keymaster. This infrastructure allows for securely managing cryptographic keys and digital certificates. The centralized management reduces the risk of loss or theft.



Data encryption/decryption

Users can encrypt and decrypt data in a secure way without a physical card.



Digital signatures

Digital signatures ensure data integrity and non-repudiation. This feature is essential for maintaining trust in digital communications and transactions.



VDI utilization

SCinterface RSC can be used within a Virtual Desktop Infrastructure (VDI).



Remote key management

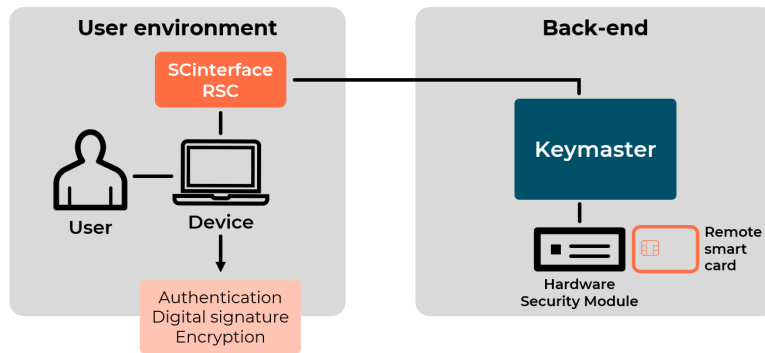
Administrators can manage certificates remotely, providing flexibility and ensuring that security measures can be adjusted in real-time. This capability is crucial for responding to security incidents or changes in user access requirements without the need for physical intervention.



Secure VPN access

Secure VPN access with two-factor authentication (2FA). The remote smart card acts as an authentication token, ensuring that users can connect to the network without physical hardware.

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With SCInterface RSC, all users can authenticate, sign, and encrypt without the need for a smart card. Instead, the keys are securely stored in a centralized back-end system and accessed through an online connection.

Reasons to embrace Eviden SCInterface RSC

User convenience

- **Convenient use:** Users don't need a physical smart card, which enhances productivity and security.
- **Remote work enablement:** SCInterface RSC allows for secure remote authentication to corporate IT systems, ensuring employees can work securely from anywhere.
- **BYOD support:** SCInterface RSC enables Bring Your Own Device (BYOD) policies, allowing employees to use personal devices for secure authentication while maintaining corporate security standards.

Easy operation

- **Centralized key management:** SCInterface RSC acts as a centralized repository for managing user keys and certificates, simplifying administration and reducing the risk of mismanagement.
- **Remote administration:** Administrators can manage cryptographic keys and digital certificates remotely.
- **Group keys and certificates:** Organizations can issue group certificates, which facilitates shared access for teams working collaboratively.
- **Simple migration from physical token:** As SCInterface accommodates a diverse range of physical tokens, it provides a seamless transition from physical to remote solutions through parallel usage.
- **Parallel usage with SCInterface VSC and physical token possible:** SCInterface RSC allows for the simultaneous use of SCInterface Virtual Smart Card, physical tokens, and remote smart cards. This flexibility enables organizations to implement a hybrid authentication approach, accommodating different user preferences.

Efficiency

- **Cost-effectiveness:** By reducing the need for physical card issuance and management, companies can lower operational and hardware costs.
- **Zero dependency on hardware:** SCInterface RSC removes the reliance from smart cards.
- **Secure remote solution for TPM-less devices:** SCInterface RSC offers a secure solution for devices without a Trusted Platform Module (TPM).
- **Real-time key management:** SCInterface RSC supports dynamic key management. This allows for quick responses to security incidents and compliance requirements.

Standards and technical specifications

Operating systems

- » Windows 11
- » Windows Server 2016, 2019, 2022
- » macOS: Sequoia (15), Tahoe (26)

Formats

- » ISO/IEC 7816 and PKCS#15
- » PKCS#10 for certificate requests
- » PKCS#11
- » PKCS#12 for key and certificate import
- » Microsoft CryptoAPI, CNG
- » macOS Crypto Token Driver
- » PC/SC
- » OIDC

More information:

