Morpho (Safran) is a global leader in security solutions. We assist both public and private sectors in ensuring security and building trust in an even more digital and mobile world. We offer innovative solutions for strong authentication, secure online transactions and legally-binding archiving. In particular, Morpho works hands in hands with the banking and insurance sectors to secure corporate and private digital transactions. Morpho helps public administrations to implement digital processes by guaranteeing data security and giving legally binding value to legal and administrative acts. Morpho also provides industrial groups with solutions which enable secure digital exchanges with their customers, suppliers and partners (e.g. maintenance, manufacturing, purchasing…). Our solutions and services are proven in diverse contexts and are certified according to the highest international security standards.
**MOBILE APPLICATION**

Cloudcard mobile app delivers an intuitive and seamless user experience between business applications, portals and trust functions.

Cloudcard app includes functions that allow the card holder to activate, manage and personalize the cards (PIN).

**KEY BENEFITS**

- Turnkey system, including factor lifecycle and usage.
- No need to deploy additional hardware devices.
- Balance between TCO and security.
- Versatile usages: strong authentication, digital signature.
- Interoperable with e-ID ecosystem players.
- Available on public or private Cloud.

**MORPHO CLOUDCARD**

Cloudcard is an electronic identity (e-ID) system distributed between the holder device and a private or public Cloud. It performs trust operations such as strong authentication, transaction authorization and digital signature, without the need for an additional hardware device.

Cloudcard is built on:

- White label mobile apps, available on the Apple App Store or Google Play.
- A ‘tamper resistant’ component deployed on a private or public Cloud, ensuring secret non-divulgation and trust operations.
- A patented secure activation protocol ensuring sole control by the holder.

This unique combination of hardware and software security ensures that the holder has sole control of its electronic identity, without the cost and complexity of hardware tokens or smartcard deployments.

**USE CASES**

- **Financial Institutions**: web portal access, payment or sensitive operation authorization, online contracting, mobile e-ID delivery.
- **Industry and Services**: extension to mobile devices of existing PC-based use cases through derivation of existing employee card/hardware token, e-ID delivery.
- **Government and Social Services**: agent web portal access, administrative document signature, extension to mobile devices of existing PC-based use cases through derivation of existing agent card/hardware token, e-ID delivery.
- **Gambling Sector**: gaming market stakeholder authentication, web portal access, payment or sensitive operation authorization.
Main features

**Strong authentication**

Cloudcard performs a truly two-factor authentication, with enhanced protection against widespread threats such as phishing, man-in-the-middle, social engineering...

**Digital signature with standard PKI**

Thanks to seamless integration with third-party PKI registration and certification authorities, Cloudcard generates universally recognized signatures from mobile devices.

**Lifecycle and usage management**

Cloudcard provides card lifecycle management capabilities: security policies administration, card issuance, identity registration, card activation and personalization by the holder in the Cloudcard app, hot-line support (PIN unlocking, device unbinding, card destruction...).

Public or private Cloud

Cloudcard is available as a public Cloud service, on ISO 27001 infrastructures operated 24/7 by Morpho, or on a private Cloud, deployed on your infrastructure and operated by your team.

**Extended threat protection/certification**

Cloudcard integrates protection mechanisms to guard against external and internal threats: separation of duties (trust functions, help-desk, operations), integrity checks, hardware security module (HSM), data and communication encryption, anti-replay protection.

The product conforms to a security target under the Common Criteria framework with an EAL3+ grade, which is under validation by the French regulatory agency FNISA**.

**Patented sole control mechanism**

The Cloudcard patented mechanism ensures that the secrets are restored in a HSM, and only usable by the card holder after having successfully authenticated himself and his mobile device.

**Interoperability**

Cloudcard can be integrated with all the e-ID ecosystem players (identity provider, registration authorities, certification authorities, help-desk, CRM).

Thanks to their open web services interfaces, Cloudcard administrators can complete their existing platforms and build upon their existing investments.

**FNISA: The French Network and Information Security Agency**

**certifications / compliance**

**Standards**
- ETSI 102 042
- ETSI 101 456
- FIPS 140-2
- PKCS#1 signature
- SHA-256

**Customization**
- Localization
- Branding

**Security Policies**
- Card issuance
- X509 certificate issuance
- Self-care (PIN code definition, lock, recovery)

**Mobile OS**
- Apple iOS 5+
- Android 4.0+

**Lifecycle Capabilities**
- QR code generation (API)
- PIN code unlock (upon holder request)
- Device / Cloudcard dissociation
- Cloudcard suspension or termination
- Card activity log

**PKI Interoperability**
- Microsoft 2003 & 2008
- OpenTrust 2.3

**HSM Interoperability**
- Thales nShield Solo/Connect
- SafeNet Luna, ProtectServer
- Utimaco CS10/CS50
- Bull TrustWay Box, Crypt2Pay, Globull

**Technical Specifications**

**How To Contact Us?**

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