Badgeo HYB FIDO2 + OTP + QSCD

FIDO2 + OTP + PKI contact and NFC smart card Passwordless

CYBERSECURITY MADE IN EUROPE



eIDAS

fido CERTIFIED FIDO2 L2

The universal strong authentication and qualified digital signature solution 100% Made in Europe

- ISO 7816 contact interface
- Smart card certified Common Criteria EAL6+
- FIDO2 (CTAP 2.1) + FIDO U2F applications, certified FIDO2 L2
- OTP (HOTP / TOTP) applications
- eIDAS-certified PKI/QSCD applet
- Middleware SafeSign Identity Client
- Contactless / NFC interfaces: MIFARE, DESFire EV2/EV3, ISO 15693 and 125 KHz

FIDO2 + OTP + QSCD products are compatible with the majority of of deployed business applications.

Supported operating systems and browsers

- Windows, Mac OS, Linux, Chrome, Edge, Firefox, Safari
- For FIDO, no software installation on the client workstation
- For OTP, use of the application **NEOWAVE OTP Manager** required

Smart card

- Java Card™
- CC EAL6+
- DES/3DES, AES, ECC, RSA
- Credential generation, management and storage inside the smart card

Wide compatibility

- Windows 10/11 with Microsoft Entra ID and over 250 online services such as Gmail, Paypal, OVH, WordPress, Dropbox
- Identity federations such as Evidian, Ilex, Okta, Ping Identity
- Strong authentication, directories, PKI, SSO, VPN, encryption, digital signature

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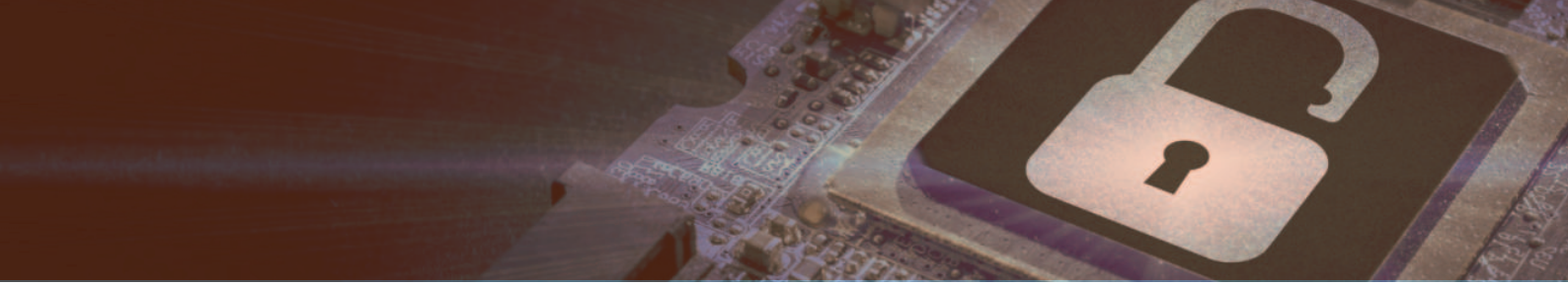

Badgeo HYB FIDO2 + OTP + QSCD is a contact and contactless smart card with middleware, Made in Europe, combining strong authentication, OTP and qualified electronic signatures. It supports **FIDO2 (CTAP 2.1) / FIDO U2F** and **OTP (HOTP/TOTP)** standards and integrates an **eIDAS QSCD-certified PKI applet**. **FIDO2 Level 2 certified**, it provides a high level of security to protect access, identities and digital documents.

- FIDO2, OTP and PKI/QSCD authentification
- Qualified digital signature compliant with European security requirements (eIDAS, QSCD, NIS, PSD2, etc.)
- Protection against phishing and password theft
- Secure generation and storage of credentials on the smart card
- Complete separation between FIDO, OTP and QSCD applications
- No “key wrapping” / No shared key preinstalled
- To use the OTP function, you need to download the **NEOWAVE OTP Manager** application

Interface(s)

- Contact: ISO/IEC 7816
- Contactless / NFC: MIFARE, DESFire EV2/EV3, 15693 and 125 KHz

Smart card

- Certified Common Criteria EAL6+

Supported operating systems

- QSCD: Windows, Mac OS and Linux
- FIDO: Windows

Browsers

- Chrome, Edge, Firefox, Safari

FIDO2.1 features

- credProtect
- hmac-secret
- Resident keys (rk) - Detectable credential
  - Maximum number limited by an available persistent memory (200 to 512 bytes per credential)
- User PIN, PIN 1 and PIN 2 protocols
  - PIN length between 4 Unicode characters and 63 bytes
  - PIN try limit set to 8. After 8 unsuccessful tries, the authenticator must be reset.
  - No default value
  - Management of specific PIN policies
- Extensions :
  - credBlob
  - credProtect
  - hmac-secret
  - largeBlobKey
  - minPinLength
  - uvm

Supported signature-algorithm

- ECC P-256 (secp256r1)

QSCD features

- Supported crypto-algorithms:
  - RSA 2K (bits)
  - RSA 3K (3072 bits)
  - RSA 4K (4096 bits)
  - ECC NIST P-256 / SECG secp256r1 (256 bits)
  - ECC NIST P-384 / SECG secp384r1 (384 bits)
  - ECC NIST P-521 / SECG secp521r1 (521 bits)
- Options
  - PIN
    - PIN length between 5 and 15 bytes
    - PIN try limit set to 3
  - PUK
    - PUK length between 5 and 15 bytes
    - PUK try limit set to 3

OTP application features

- TOTP: 30 or 60 secondss
- HOTP: configurable initial counter
- Common features:
  - 6 to 8 digits
  - SHA 1, 256, 512
- Protection of OTP codes with a PIN (optional):
  - Format: Alphanumeric
  - Length: 4 to 63 characters

Dimensions and weight

- Length 85.6 mm / width 54 mm / height 0.76 mm
- Weight: 5 g

About NEOWAVE and AET Europe

NEOWAVE and AET Europe providecybersecurity, digital trust, and identity and access management solutions. NEOWAVE, a French company, specialises in strong authentication and secure transactions, offering products incorporating USB, RFID/NFC, and BLE technologies. AET Europe, a Dutch company, develops software solutions for identification, authentication, and electronic signatures.

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