

Badgeo HYB FIDO2 + QSCD

FIDO2 + PKI contact and NFC smart card Passwordless



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 FIDO L1
- ✓ eIDAS-certified PKI/QSCD applet
- ✓ Middleware SafeSign Identity Client
- ✓ Contactless / NFC interfaces: MIFARE, DESFire EV2/EV3, ISO 15693 and 125 KHZ

FIDO2 + 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



Smart card

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



Wide compatibility

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



Badgeo HYB FIDO2 + QSCD is a contact and contactless smart card made in Europe. It integrates an eIDAS QSCD-certified PKI applet and a FIDO2 (CTAP 2.1) and FIDO U2F applet. Badgeo HYB FIDO2 + QSCD thus allows users to benefit from high-quality logical security solutions as well as an extremely reliable qualified digital signature solution, while remaining easy to use.

- ✓ Meets European security requirements (eIDAS, QSCD, NIS, PSD2...)
- ✓ Physical access with MIFARE, DESFire EV2/EV3 and ISO 1569
- ✓ Protection against phishing and preservation of the integrity of electronic documents
- ✓ No “key wrapping” / No shared key preinstalled

Interface(s)

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

Smart card

- Certified Criteria Common EAL6+

Supported Operating Systems

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

Browsers

- Edge, Firefox, Chrome, Safari

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

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
- Customization options:
 - credBlob
 - largeBlobKey
 - minPinLength
 - pinUvAuthToken
 - noMcGaPermissionsWithClientPin
 - setMinPINLength
 - ep - Enterprise Attestation
 - authnrCfg
 - credMgmt
 - largeBlobs
 - makeCredUvNotRqd
 - alwaysUv

Dimensions and weight

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



About NEOWAVE and AET Europe

NEOWAVE and AET Europe solutions address the cybersecurity, digital trust and Identity Access Management markets. NEOWAVE is a French company, specializing in strong authentication and secure transactions. NEOWAVE products combine the high level of security provided by smart cards with the advantages of connectivity and storage technologies: USB, RFID / NFC and Bluetooth Low Energy (BLE).

AET Europe is a Dutch company, developing software solutions for user identification, authentication and digital signatures. AET Europe products are SafeSign IC, BlueX Certificate Management and ConsentID.

NEOWAVE

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