



# Badgeo FIDO2 + QSCD

Contact smart card with middleware



A universal strong authentication & digital signature solution  
100% Made in Europe



- 1 For strong authentication and qualified digital signature
- 2 eIDAS QSCD-certified PKI applet 
- 3 Compliant with FIDO2 (CTAP 2.1) and FIDO U2F standards
- 4 Meets European security requirements (eIDAS, QSCD, PSD2...)
- 5 Contact Smart Card (ISO 7816) 
- 6 Smart card component certified Common Criteria EAL6+
- 7 Option: physical access with DESFire EV3

Badgeo FIDO2 + QSCD is compatible with systems that support PC/SC protocol.



Azure Active Directory



# Smart card features:

## QSCD features:

- Supported crypto-algorithms:
  - RSA 2K (2048 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

## FIDO2.0 / FIDO2.1 features:

- Supported signature-algorithm:
  - ECC NIST P-256 / SECG secp256r1 (256 bits)
- Extensions:
  - credProtect
  - hmac-secret
  - credBlob (personalization option)
  - largeBlobKey (personalization option)
  - minPinLength (personalization option)
- Options :
  - rk (resident keys) - Discoverable credentials
    - Maximum number limited by available persistent memory (256 to 512 bytes per credential)
  - clientPIN, PIN protocol 1 and PIN protocol 2
    - PIN length between 4 and 63 bytes
    - PIN try limit set to 8. After 8 unsuccessful tries, the authenticator must be reset
    - No default value
  - ep - Enterprise Attestation (personalization option)
  - All supported options and extensions (pinUvAuthToken, authnrCfg, largeBlobs...)

- Contact (ISO/IEC 7816) smart card for a strong authentication and qualified digital signature both on-premises and for the web
- Compatible with systems that support PC/SC protocol
- CC EAL6+ certified JCOP 4 component
- Option: physical access with DESFire EV3
- Dimensions and weight: Length 85.60 mm / Width 53.98 mm / Thickness 0.76 mm / Weight 5g

## About NEOWAVE and AET:

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



# NEOWAVE

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