



# Badgeo NFC FIDO2

FIDO2 & FIDO U2F NFC card



Web / cloud strong authentication solution



- 1 NFC smart card certified Common Criteria EAL5+
- 2 Credential generation, management and storage inside the smart card
- 3 Easy to use and to deploy (no software installation required)
- 4 FIDO2 compatible with Windows 10 / 11, Azure Active Directory,...
- 5 FIDO U2F compatible with Gmail, Google Apps for Work, Facebook, Dropbox,...



### Card features:

- Supported protocols:
  - Contactless ISO/IEC 14443 Type A, DESFire EV2
  - Contactless ISO 15693 (option)
- Full compatibility with Windows, Android and iOS
- Credential generation, management and storage inside the smart card
- Up to 1024 credentials for FIDO2 and FIDO U2F
- Complete separation between FIDO2 and FIDO U2F applications
- Anti-Phishing protection (to replace vulnerable SMS, OTP or TOTP solutions)
- No “key wrapping” / No shared key preinstalled
- Graphical personalization

### FIDO2 features:

- Supported crypto-algorithm:
  - ECC P-256
- Supported options:
  - User PIN
    - 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
  - rk (resident keys)
    - Maximum number limited by an available persistent memory (~256 credentials)
- Extension:
  - HMAC secret

### FIDO U2F features:

- No security failure in case of key or password theft (Authentication requires both)
- Second factor authentication fully compliant with Google services through Chrome, Edge and Firefox browsers
- Extended compatibility (Salesforce, Office 365, etc.) through federation identity providers (Web SSO)

### About FIDO:

The FIDO (Fast IDentity Online) Alliance includes a wide range of technology players (Google, Microsoft, Amazon, PayPal, Visa, MasterCard, etc.). This non-profit organization specifies and promotes simple and interoperable PKI-based security architectures (Public Key Infrastructure) to enhance online authentication security.

FIDO2 is the overarching term for FIDO Alliance’s latest set of specifications. FIDO2 enables users to leverage common devices to easily authenticate to online services in both mobile and desktop environments. FIDO2 is supported by Microsoft and natively integrated into Azure Active Directory (Azure AD) and Windows 10 / 11. FIDO U2F is used as a secure second factor to strengthen the username and password login process. FIDO U2F specifications became available in December 2014 and were immediately implemented by Google on its own authentication portal. Since then, FIDO support has been adopted by many online services (Dropbox, Github, etc.) and web SSO providers.

### About NEOWAVE:

NEOWAVE is an innovative French company, created in 2007, 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). NEOWAVE products and services address the cybersecurity, digital trust and identity management markets.



# NEOWAVE

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