

# SafeNet eToken Fusion

Adopt FIDO authentication  
thanks to an enhanced  
biometric user experience

## A shield against phishing and cyber attacks

Nowadays, phishing and cyber-attacks have become increasingly challenging for both individuals and organizations. These malicious attempts to steal sensitive information often exploit weak authentication methods such as passwords or SMS OTP, making it crucial to adopt robust security measures. FIDO (Fast Identity Online) authentication, with its enhanced biometric user experience, provides effective defense against these threats while ensuring smooth authentication experience and easy adoption.

SafeNet eToken Fusion Bio is the brand new addition to the Thales FIDO biometric portfolio on top of SafeNet IDPrime FIDO biometric smart card.

By utilizing fingerprint biometric data, SafeNet eToken Fusion Bio ensures a secure and seamless authentication process that is resistant to phishing and other cyber-attacks. Organizations can modernize progressively their authentication stack by maintaining PKI use cases such as digital signature in parallel of implementing passwordless FIDO authentication.

### How does it work?

**One-Touch Login:** End users just need to plug this FIDO Biometric key to their laptop or mobile phone and place their finger on the token sensor to access their digital resources.

**Quick and easy set up:** End users set up their PIN and enroll their fingerprint from their Windows desktop using Windows settings.

### Key Benefits

- Quick and easy authentication to digital resources from a wide range of devices
- State of the art biometric token for an enhanced passwordless authentication user experience
- Full data privacy ensured as biometrics never leave the device
- FIDO and PKI support for a comprehensive authentication approach
- Enterprise Edition enables fast deployment and secure lifecycle management



### Facilitate adoption by your end users

- Frontline workers who need quick, easy access to digital resources on shared workstations
- VIPs who want to use a premium, innovative and user-friendly form of authentication
- Users worried replacing their password by a new authentication method
- Mobile workers accessing digital resource from their laptop and Android Mobile phone
- Users have the option of typing a PIN when a keyboard is unavailable

### Form Factors

- USB-Type A
- USB-Type C

### Certifications

- FIPS 140-2 L2 (PKI module)
- FIDO2.1 L1
- FIDO2.1 L2 in progress

### Broad compatibility with FIDO ecosystem

- Thales authentication platforms
- Thales management tools
- Third party identity providers such as Microsoft Entra ID
- Management systems such as vSEC:CMS

## Technical Specifications

Memory	eToken Fusion Bio	eToken Fusion Bio Enterprise
Memory chip	<ul style="list-style-type: none"> <li>FIDO chip: 512KB</li> <li>PKI chip: 400KB</li> </ul>	<ul style="list-style-type: none"> <li>FIDO chip: 512KB</li> <li>KI chip: 400KB</li> </ul>
Free memory available for resident keys, certificates, additional applets & data	<ul style="list-style-type: none"> <li>FIDO chip: 206KB</li> <li>PKI chip: 77KB</li> </ul>	<ul style="list-style-type: none"> <li>FIDO chip: 206KB</li> <li>PKI chip: 77KB</li> </ul>
Applets Features		
FIDO discoverable credentials (resident keys)	<ul style="list-style-type: none"> <li>Up to 255</li> </ul>	<ul style="list-style-type: none"> <li>Up to 255</li> </ul>
FIDO Biometric number of supported fingerprints	<ul style="list-style-type: none"> <li>2</li> </ul>	<ul style="list-style-type: none"> <li>2</li> </ul>
PKI key containers	<ul style="list-style-type: none"> <li>Up to 32</li> </ul>	<ul style="list-style-type: none"> <li>Up to 32</li> </ul>
Thales FIDO Enterprise features	<ul style="list-style-type: none"> <li>N/A</li> </ul>	<ul style="list-style-type: none"> <li>Admin mode, Service allow list, PIN unblock, manage reset, persistent minimum PIN length</li> </ul>
FIDO Authentication algorithms	<ul style="list-style-type: none"> <li>ECC 256 ECDSA</li> </ul>	<ul style="list-style-type: none"> <li>ECC 256 ECDSA</li> </ul>
Standards Supported		
Java Card	<ul style="list-style-type: none"> <li>PKI chip: 3.0.4</li> <li>FIDO chip: 3.0.5</li> </ul>	<ul style="list-style-type: none"> <li>PKI chip: 3.0.4</li> <li>FIDO chip: 3.0.5</li> </ul>
Global Platform	<ul style="list-style-type: none"> <li>PKI chip: 2.2.1</li> <li>FIDO chip: 2.3</li> </ul>	<ul style="list-style-type: none"> <li>PKI chip: 2.2.1</li> <li>FIDO chip: 2.3</li> </ul>
FIDO 2.0/ FIDO 2.1	<ul style="list-style-type: none"> <li>FIDO 2.1</li> </ul>	<ul style="list-style-type: none"> <li>FIDO 2.1</li> </ul>
PKI	<ul style="list-style-type: none"> <li>IDPrime 930</li> </ul>	<ul style="list-style-type: none"> <li>IDPrime 930</li> </ul>
Base CSP minidriver (SafeNet minidriver)	<ul style="list-style-type: none"> <li>✓</li> </ul>	<ul style="list-style-type: none"> <li>✓</li> </ul>
Certifications		
Chip: CC EAL6+	<ul style="list-style-type: none"> <li>✓</li> </ul>	<ul style="list-style-type: none"> <li>✓</li> </ul>
NIST certification	<ul style="list-style-type: none"> <li>FIPS 140-2 L2 <a href="#">Certificate #451Z</a></li> </ul>	<ul style="list-style-type: none"> <li><a href="#">FIPS 140-2 L2 Certificate #451Z</a></li> </ul>
<u>FIDO 2.1</u>	<ul style="list-style-type: none"> <li><a href="#">FIDO2.1 L1 , L2 in progress</a></li> </ul>	<ul style="list-style-type: none"> <li>N/A</li> </ul>

Memory	eToken Fusion Bio	eToken Fusion Bio Enterprise
Additional Features	eToken Fusion Bio	eToken Fusion Bio Enterprise
Onboard PIN policy	✓	✓
PKI Multi-PIN support	✓	✓
Customization and branding	<ul style="list-style-type: none"> <li>PIN length, enforce user verification and more.</li> </ul>	<ul style="list-style-type: none"> <li>PIN length, enforce user verification and more.</li> </ul>
User verification	<ul style="list-style-type: none"> <li>IDPrime 930 - PIN FIDO 2.1 - PIN/Fingerprint</li> </ul>	<ul style="list-style-type: none"> <li>IDPrime 930 - PIN FIDO 2.1 - PIN/Fingerprint</li> </ul>
Biometric Match on Card (fingerprint)	✓	✓
Token Dimensions	<ul style="list-style-type: none"> <li>USB-A :</li> </ul>	<ul style="list-style-type: none"> <li>USB-A :</li> </ul>
Casing	Recycled ABS	Recycled ABS

## Operating Systems

FIDO supported in all FIDO compliant operating systems including Windows 10 & 11	✓	✓
PKI supported in Windows, macOS X, and Linux	✓	✓

## Cryptographic algorithms (PKI)

Hash: SHA-1, SHA-256, SHA-384, SHA-512	✓	✓
RSA: up to RSA 4096 bits RSA OAEP & RSA PSS	✓	✓
ECDSA: P-256, P-384, P-521 ECDH: P-256, P-384, P-521	✓	✓
On-card asymmetric key pair generation (RSA up to 4096 bits & Elliptic curves up to 521 bits)	✓	✓
Symmetric: AES—For secure messaging and 3DES for Microsoft Challenge/ Response only	✓	✓