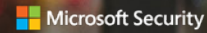


Solution Brief

Member of  
Microsoft Intelligent  
Security Association



# Thales Phishing-Resistant FIDO2 & Certificate-Based Authentication for Microsoft Entra ID

[cpl.thalesgroup.com](https://cpl.thalesgroup.com)

**THALES**  
Building a future we can all trust

With the increasing shift towards cloud-based applications, secure identity management has become crucial. Microsoft Entra ID, as part of the Microsoft Entra family, offers advanced identity and access management solutions. By integrating Thales' phishing-resistant FIDO2 and Certificate-Based Authenticators (CBA) with Entra ID, organizations moving to the cloud and Microsoft 365 can enhance their security posture while simplifying user authentication. Thales FIDO2 security keys are fully integrated with Microsoft Entra ID, offering a plug-and-play solution validated by Microsoft's technical teams. This integration ensures that organizations can deploy a secure, passwordless authentication system without the complexity typically associated with multi-vendor solutions. In that way, the risk of unauthorized access to Microsoft environments, SaaS applications and Windows endpoints is reduced.

Thales FIDO2 security keys support multiple applications at the same time. Use one that combines FIDO2, U2F, PKI and RFID to access both physical spaces and logical resources



## Passwordless Phishing-Resistant MFA

FIDO2 authentication removes the risk of account take-over by replacing vulnerable passwords with a phishing-resistant WebAuthn credential.

FIDO2 authentication has gained traction as a modern form of MFA because of its considerable benefits in easing the login experience for users and overcoming the inherent vulnerabilities of passwords.

## Meet stringent compliance mandates

Thales FIDO2 security keys - USB Tokens and smart cards - let you meet all your regulatory needs. They are U2F certified and FIDO2/FIDO2.1 - Level 1 or Level 2. The combined PKI-FIDO keys are compliant with the US Executive Order mandate for phishing resistant MFA and NIST regulations. They are FIPS 140-2, 140-3\*, FIPS 201\* (for PIV) or Common Criteria (CC) certified, ANSSI qualified for the Java platform and the PKI applet. They also meet eIDAS regulations for both eSignature and eSeal applications.

\*Certification in progress

### Best in class security

- Thales controls the entire manufacture cycle and develops its own FIDO crypto libraries, which reduces the risk of being compromised.

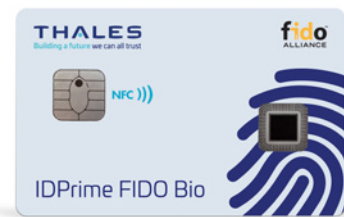
### Compliant with high security market standards

- U2F and FIDO2 certified
- FIPS and CC Certified
- Compliant with US and EU regulations for phishing-resistant authentication
- Manufacturing in Europe and Trade Agreement Act (TAA) compliancy in option

### Plug and Play with Entra ID

- Fully Compatible with Entra ID
- End users can self-register their key

## Enable Multiple User Authentication Journeys



Thales, the world leader in digital security, integrates with Microsoft Entra ID to support numerous passwordless authentication journeys with a powerful range of FIDO2 security keys.

Provide your end users a new passwordless authentication experience thanks to SafeNet IDPrime FIDO Bio smart card.

End users authenticate faster & easier by tapping the card on their device and putting their fingerprint on the sensor.

To protect users' data privacy, with fingerprint on-device authentication, users' data never leave the device. In addition, this



card meets the highest security standards FIDO2.1 L2; Since most of users reuse their passwords across apps, you can improve security dramatically and reduce calls to the Helpdesk, by equipping users with FIDO authenticators. Thales FIDO security keys are fully compatible with Microsoft Entra ID and ensure secure access to all applications managed in Entra ID

### Network Login for Frontline Workers

FIDO2 security keys provide passwordless MFA, enabling users such as frontline workers to securely access shared devices such as Windows PCs and tablets.


### Combine Physical & Logical Access

For optimum convenience, Thales FIDO smart cards support physical access enabling users to access both physical spaces and logical resources with a single customizable smart card.

### Modernize PKI / CBA Environments




With Microsoft Entra ID cloud native CBA support, organizations that rely on PKI and Certificates based Authentication (CBA) can now use a combined Thales PKI FIDO smart card or USB token to facilitate their cloud and digital transformation initiatives. By providing their users with a single authentication device for securing access to legacy apps networks domains and cloud services, they reduce operational costs and simplify user experience.



### Support for multiple use cases

- Combine FIDO, PKI and physical access in a single device.
- Experience a strong authentication from mobile endpoints.



### User convenience for better adoption

- Support for biometric (fingerprint on smart card)
- Sensitive presence detector on USB FIDO key

### Secure Remote Access

Whether working from home or while traveling, users may log into web-based applications from multiple devices in multiple locations. Thales FIDO authenticators provide secure remote access with MFA to protect your organization regardless of the endpoint device and the location.

### Secure Mobile Access

Thales FIDO keys enable users to authenticate to any web resources from their mobile devices. This enables users to access their resources either by tapping their contactless smart card or token on their device using NFC, or by plugging one of our wide range of USB-C tokens to their mobile phone.



### Privileged Users Access Control

Privileged users with elevated permissions (administrators, VIPs, etc.) have ready access to sensitive data – their accounts are a prime target for spear phishing and whaling attacks. Providing privileged users with FIDO2 security keys to replace vulnerable passwords ensures that only authorized users can access privileged resources.

## Supported Devices & Platforms

Thales FIDO security keys support a large variety of operating systems such as iOS, Android, Windows 11, 10, 8, Windows Server OS, macOS, and Linux making them compatible with the majority of devices used in an organization.

# Configure easily and securely your Thales FIDO keys with SafeNet FIDO Key Manager

SafeNet FIDO Key Manager is a standalone offline application available on Mobile and Desktop platforms that allows administrators and end users to set up and manage Thales' FIDO USB tokens and Smartcards all along their life cycle.

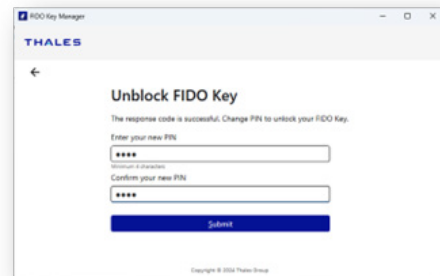
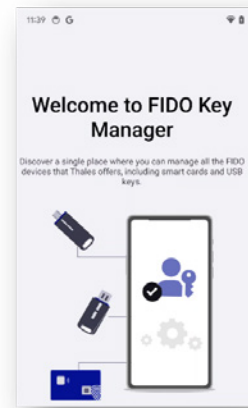
With SafeNet FIDO Key Manager, you can configure the Thales FIDO keys according to the FIDO2.1 specifications from FIDO Alliance and benefit from the unique set of additional FIDO enterprise features that Thales offer for better security and convenience. Your administrators and end users can install this application on their various platforms with no additional charge

## Control your FIDO keys' lifecycle thanks to Thales FIDO Enterprise features .

Thales FIDO enterprise features allow organizations to manage their FIDO keys securely and easily throughout their life cycle. They add an administration layer and configuration policies to help IT teams deploy, administer, and support the end user. Beyond the FIDO

Alliance FIDO2.1 specifications, Thales FIDO enterprise features offer organizations:

- **Better security** - Enforcing user verification during authentication from any device, managing the minimum PIN length and protecting the PIN policy set, preventing data in fido keys from malicious or non-intentional deletion.
- **Appropriate usage of organization assets** - Limiting the usage of the FIDO authenticators to a list of preferred services.
- **Reduced IT costs & better user experience** - Unlocking the FIDO key without resetting all key data, allowing end users to set and change their PIN code in self-service.



### Robustness & scalability for a long life duration

- Hard molded plastic, tamper evident USB FIDO keys
- No damage to USB ports thanks to sensitive presence detector
- Support for firmware updates for better maintenance and upgradability



### Robustness & scalability for a long life duration

- Comply with FIDO2.1 specifications
- Benefit from Thales FIDO Enterprise features
- Use SafeNet FIDO key Manager for free

## Cards – Form Factor

Main Characteristics**	Mode			Certification		Applet	
Product List	Contact	Contactless (NFC)	Physical Address	FIPS	Common Criteria	PKI	FIDO
IDPrime 931 FIDO	PKI	FIDO	Mifare Desfire	FIPS 140-2 L2 & L3		IDPrime 930	FIDO2.0 L1
IDPrime 3930 FIDO	FIDO, PKI	FIDO, PKI		FIPS 140-2 L2		IDPrime 3930	FIDO2.0 L1
IDPrime 3940 FIDO	FIDO, PKI	FIDO, PKI			✓	IDPrime 3940	FIDO2.0 L1
IDPrime 941 FIDO	PKI	FIDO	Mifare Desfire		✓	IDPrime 940	FIDO2.0 L1
IDPrime 3121 FIDO		FIDO	Mifare Desfire				FIDO2.0 L1
IDPrime FIDO Bio		FIDO					FIDO2.0 L2

## Tokens – Form Factor

Main Characteristics**	Mode		Certification		Applet		
Product List	Contact/USB	Contactless (NFC)	FIPS	Common Criteria	PKI	FIDO	Thales FIDO enterprise features
eToken FIDO USB-A/USB-C	PKI					FIDO2.0 L1	
eToken Fusion USB-A/USB-C	FIDO, PKI				IDPrime 930	FIDO2.0 L1	
eToken Fusion CC USB-A/USB-C	FIDO, PKI			✓	IDPrime 940	FIDO2.0 L1	
eToken Fusion FIPS USB-A/USB-C	FIDO, PKI		FIPS 140-2 L2 secure element		IDPrime 930	FIDO2.0 L1	
eToken Fusion NFC PIV USB-C	FIDO, PKI	FIDO, PKI	FIPS 140-3 L2* secure element		PIV 4.0	FIDO2.0 L1 and L2*	✓
eToken Fusion NFC FIPS USB-C	FIDO, PKI	FIDO, PKI	FIPS 140-2 L2 secure element		IDPrime 3930	FIDO2.0 L1	

\*Certification in progress

\*\*For more details about each product, consult the FIDO2 Security Keys Specifications Brochure the [FIDO2 Security Keys Specifications Brochure](#)



## Partner with an Identity Trailblazer .

Awarded 2024 Identity Trailblazer by Microsoft Security, Thales is the sole vendor offering USB-C and USB-A FIDO security keys with Microsoft Security logo on one side. They are ideal for protecting cloud services and windows logon.



## About Thales OneWelcome Identity & Access Management Solutions

Thales’ digital identity products and solutions empower billions of people and things with digital identities worldwide. The Thales OneWelcome Identity & Access Management portfolio enables organizations to build frictionless, trusted and secure digital journeys for customers, business partners and employees. The OneWelcome Identity Platform provides a variety of capabilities from identity verification, single sign-on, passwordless and multi-factor authentication to fraud management, adaptive access, dynamic authorization and consent & preference management for the highest levels of assurance. More than 30,000 organizations trust us with their IAM and data security needs, enabling them to deliver secure digital services to their users.

## About Thales

Today’s businesses and governments depend on the cloud, data and software to deliver trusted digital services. That is why the most recognized brands and organizations around the world, rely on Thales to help them protect sensitive information and software wherever it is created, stored or accessed – from the cloud and data centers to devices and across networks. As the global leader in data security and software licensing, our solutions enable organizations to move to the cloud securely, achieve compliance with confidence, create more value from their software and deliver seamless digital experiences for millions of consumers every day.