Token

Stop Phishing and Ransomware With Next-Generation MFA

The strongest MFA for the ultimate protection against ransomware, phishing, data breaches, and BYOD vulnerabilities

Why Organizations Need Robust Cybersecurity
(and why traditional MFA is no longer enough)

For organizations all over the world, cyber threats are occurring more frequently and at a larger scale than in previous years. Sophisticated, automated and AI-driven cybersecurity attacks are proliferating. And data breaches caused by compromised user credentials have evolved into one of the biggest challenges for enterprise security teams.

In this worrying landscape, reliance on password-based security can be a costly and irreversible mistake for organizations. Traditional multi-factor authentication (MFA) is increasingly vulnerable to threats, as recent successful attacks on many high-profile companies have shown.

Effective cybersecurity requires a next-generation multifactor authentication solution that can stop attacks: wearable, biometric, MFA.

Token Ring's wearable MFA is the strongest possible way to reduce cybersecurity vulnerabilities and protect enterprise assets from malicious adversaries.

Next-Generation, Wearable MFA with Token Ring: The Ultimate in Enterprise Security

Token Ring is a next-generation biometric wearable that delivers ultra-strong MFA to protect organizations from all kinds of cyberattacks that rely on defeating access controls like OTP over SMS. Unlike traditional MFA, it's impossible for attackers to bypass Token Ring with malware, MFA fatigue attacks, adversary-in-the-middle (AiTM) attacks, and others. The device will respond only to those authorized, so no one else can use it, much less compromise it.

Token Ring's biometric authentication eliminates the vulnerabilities of outdated authentication methods. It also provides enhanced protection against today's biggest threats, including account takeover attempts, phishing, credential stuffing, MITM attacks, ransomware, and data breaches.

Secure Credentials, Secure Authentication, Secure Organization

Compromised user credentials remain the #1 contributing factor to data breaches. That's why the ability to keep these credentials safe is a must-have for modern-day authentication solutions. Unfortunately, none of today's solutions can make such a promise. Except Token Ring.

Token Ring secures user credentials by safely storing them on an EAL5+ certified secure element. The secure element combined with a 508-dpi capacitive touch fingerprint sensor ensures that Token Ring delivers bank-grade authentication for any security-conscious company.

Token Ring Provides an Easy Path to Passwordless Access

Authentication solutions like applications, hardware keys, or passkeys cannot provide frictionless passwordless support. Token Ring incorporates a unique "gesture" feature that allows the authorized user to authenticate only when they intend to. Thus, it provides all the benefits of MFA plus passwordless login in a single step.

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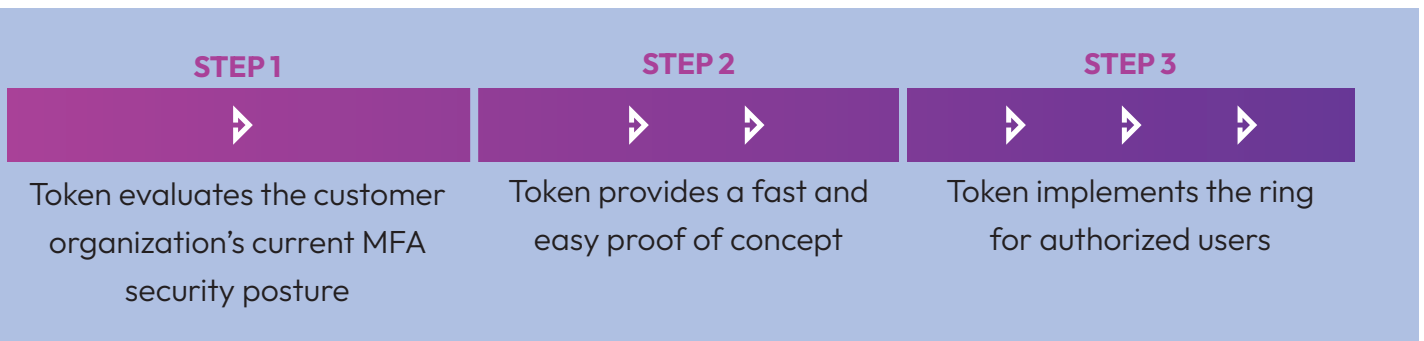
Wearable Authentication that's Always Safe and Always Available

Token Ring is effective against phishing attacks, BYOD vulnerabilities, lost and stolen credentials, weak passwords, credential stuffing, and easily stolen SMS one-time passcodes. It also prevents remote attacks thanks to NFC technology that offers unbreakable proximity security. Easy to implement, Token Ring delivers FIDO2 support and works with all leading IAM solutions.

Moreover, since it always remains with the user, it is safe and immediately available for authentication. Only the authorized user can use the device and no attacker can access the secrets and keys stored on it. Since biometrics never leave the ring, they can never be stolen from a mobile device or server – a big plus for compliance.

Easy 3-Step Enterprise Security with Token Ring

Token Ring is changing the enterprise security landscape with innovative, extremely secure wearable biometric authentication. Packed with cutting-edge security technology in a tiny footprint, Token Ring delivers the strongest authentication possible in 3 easy steps:

STEP 1	STEP 2	STEP 3
Token evaluates the customer organization's current MFA security posture	Token provides a fast and easy proof of concept	Token implements the ring for authorized users

Token Ring addresses enterprise-wide security requirements for multiple users and unlimited use cases. We are dedicated to the fast implementation of our solution and committed to ensuring that all users enjoy a convenient authentication experience every time they use Token Ring.

Technical Specs

LED The multi-color LED indicates status to the user. The light relays a variety of information, including the current battery level, authentication success or failure, BLE/NFC status, and more.

Fingerprint Sensor The fingerprint sensor handles user verification and authentication through a biometric token based off the FIDO 2 application standard. Only the user's fingerprint can enable authentication on the ring.

NFC Interface NFC affirms proximity security with the ring's unique gesture capabilities, only initiated by the user.

Proximity Sensor Detects when the ring is on a user. Once removed, all authentication modes are disabled until the user re-authorizes themselves with a successful fingerprint read.

LED

Proximity Sensor
(inside ring)

Fingerprint Sensor

NFC Communication Interface
(inside bottom of ring)
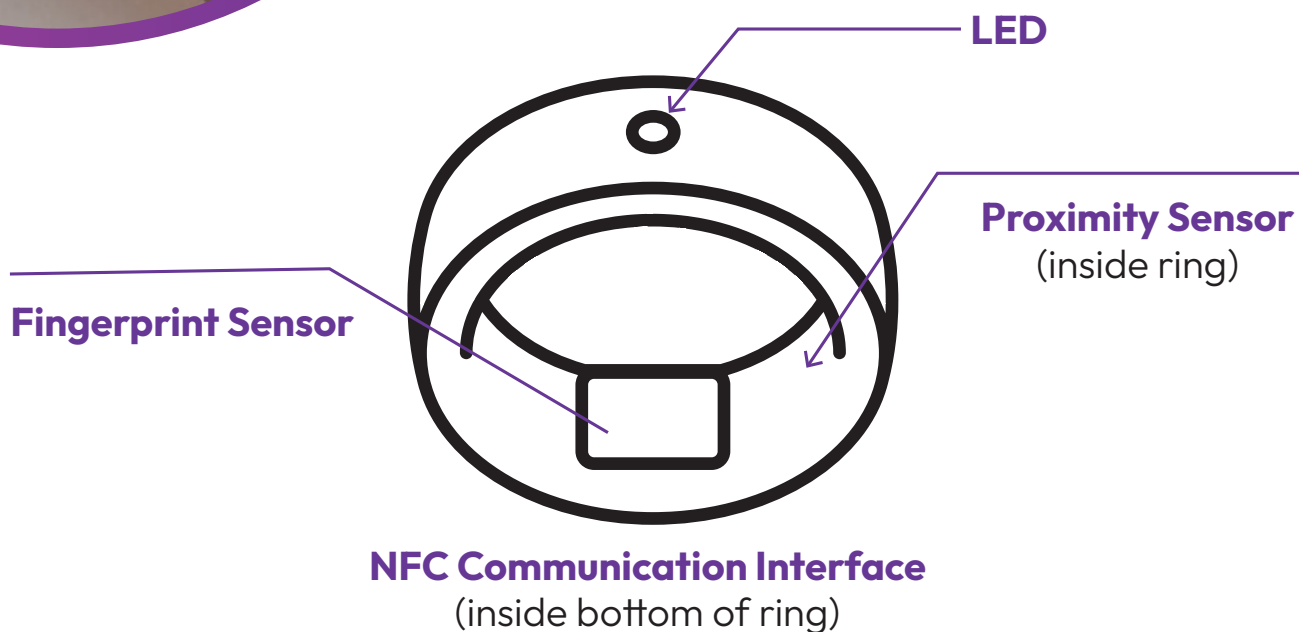
Interface

- Token mobile application
  - IOS
  - Android
- Computer via NFC reader
  - Windows
  - MacOS

Authentication method: FIDO2

- FIDO2 enables users to leverage common devices to easily authenticate to online services in both mobile and desktop environments
- Every single key generated by the Token's FIDO2 authenticator is stored on the device itself, in a Common Criteria EAL5+ verified secure hardware environment
- All cryptographic signing is implemented using the ES256 Elliptic Curve algorithm
- Support for up to 100 unique resident keys
- Pin or passwordless supported

Fingerprint sensor

- 508 dpi capacitive touch
- 5.45mm x 6.10mm
- 8 bit greyscale resolution

Proximity sensor

- Fully integrated proximity and ambient light sensor
- Infrared emitter
- I2C interface and interrupt function

LED light

- Multicolor status indication

Secure element

- EAL5+ Verified
- Stores fingerprint template and FIDO2 keys
- Storage for 100 keys

Bluetooth

- BLE 5.0
- Gesture enabled

NFC

- NFC enabled
- Gesture enabled
- Transaction distance .25 inch

Battery

- ~20 hours with normal use
- Time to fully charge: 45 – 90 minutes
- Recovery charge 5 minutes

Charger

- USB A 5 volt

NFC reader

- USB A
- USB C adapter included
- Connection to computer required

Form factor: ring

- Ring sizes: 6 - 14 whole sizes*
- Dimensions: size 10 ring – 28mm OD 25mm ID
- Weight: 2 – 5 grams

Water resistance

- Splash and spray resistant

Operating temperature

- 0°- 60° C

* Rings sizes are not comparable to standard jewelry ring sizes. A sizer kit can be provided to find the size of ring that will best fit the user.

The Advantage of Next-Generation MFA

	TOKEN	SMS	AUTHENTICATION APPS	HARDWARE KEYS	PASSKEYS
Works with leading IAM Solutions	✓	✓	✓	✓	✓
Effective against phishing attacks	✓	✗	✗	✗	✗
Keys stored locally only	✓	✗	✗	✓	✗
No BYOD vulnerabilities	✓	✗	✗	✓	✗
Secured with biometrics	✓	✗	✗	✗ ✓	✗
Passwordless login support	✓	✗	✗	✗	✓
Easy to implement	✓	✓	✗	✓	✗
No 6 to 12-digit OTP codes to enter	✓	✗	✗	✗ ✓	✓
FIDO2 Support	✓	✗	✗	✓	✓

The Benefits of Biometric Wearable Authentication

1. **Only the authorized person can use the device** for network access.

2. A ring doesn't get lost or misplaced like a dongle resulting in **fewer help desk calls** and fewer replacements.

3. The **biometrics never leave the ring** – they cannot be stolen from a phone or server.

4. **The secrets/keys cannot be accessed by an attacker** because they are stored on the ring in a Secure Element.

About Token

In a world of stolen identities and compromised user credentials, Token is changing the way our customers secure their organizations by providing passwordless, biometric, multifactor authentication. To learn more, visit **www.tokenring.com**.