PRODUCT BRIEF

CypherEye™: Trusted Transactions in a Snap

Users hate the hassle of complicated logins and remembering multiple passwords. By design, current security authentication methods punish users for using many services, transacting with many providers, and trusting computers with their sensitive data.

In an attempt to reduce their risk of data breaches, providers have shifted the security burden to users by introducing password complexity requirements, "prove you are not a robot" features, and additional secondary authentication factors. All of these things do not make it simple and easy for user to access accounts or make cyber transactions.

Solving the Usability vs. Security Conflict

With CypherEye™ technology and use of a mobile phone, CypherEye solves the conflict between usability and security. By making the mobile phone and the CypherEye app the basis of your digital identity, users can more quickly and easily get securely authenticated. This method is not vulnerable to currently known models of compromise and can be deployed as a completely private enterprise installation or via SaaS subscription model.

It easily integrates into existing digital applications, and most importantly, provides a better end-user experience while bringing leading edge security to all parties.

How CypherEye Technology Works

CypherEye combines several authentication mechanisms using multiple authentication factors to create a single unified security process.

A user's identity is stored cryptographically and is associated with a unique private key stored on the users' mobile device. The actual authentication is further secured with a time sensitive challenge that is communicated via the dynamic CypherEye.

The dynamic nature of CypherEye's optical code creates an out-of-band, air-gapped communication channel creating a much more secure protocol transmitted through otherwise unrelated communication networks and protocols. Initiating authentication session is as simple as clicking on login and taking a picture or scanning the dynamic CypherEye on the screen with a mobile phone.

Authentication is completed by the CypherEye mobile app communicating cryptographically with the CypherEye Cloud and the web application. The CypherEyeCloud handles all communication, sending a secured assertion to the requesting application via a separate communication channel. After CypherEye authentication has validated both the user and the web application as valid, the user is authorized though the web applications existing account management systems. CypherEye works with your company's existing user management processes and systems allows centralized management of users while preserving privacy by keeping all sensitive data decentralized.

Multi-Factor Authentication

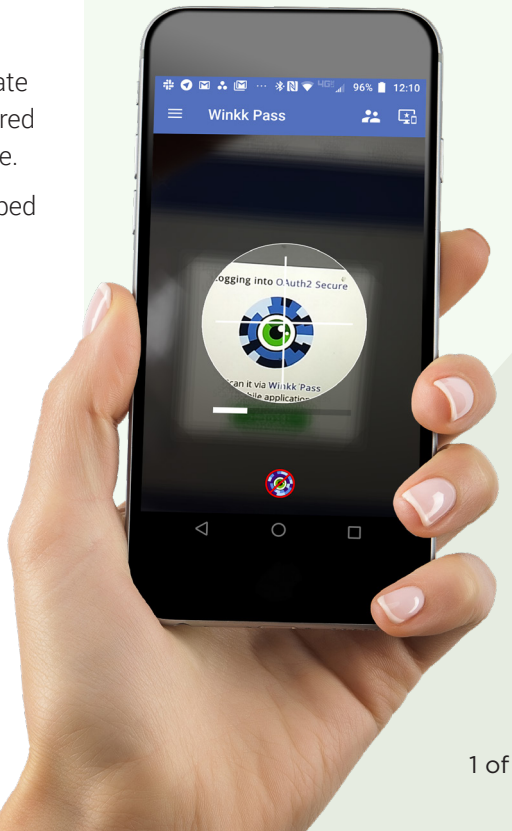
uses existing mobile phones for secure authentication

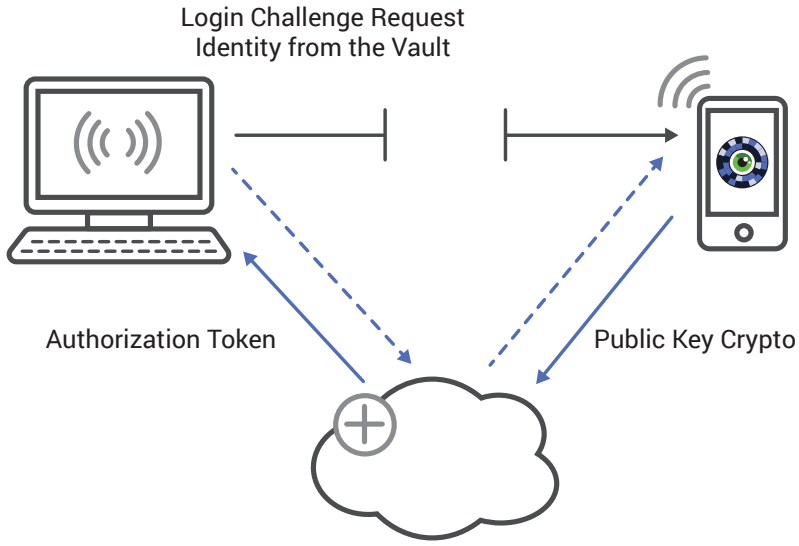
Centrally Managed Admin

authorization and entitlement can be managed with existing Account Mangement Systems such as Microsoft Active Directory

Unified Audit Trail

provides single audit log of authentications across all devices, native applications and SaaS services





FEATURES AND BENEFITS

Perfect for Enterprises

- Integrates via Common Authentication Provider (pre-integrated with Active Directory)
- Protects corporate user identity information with air-gapped communication channel
- Supports multiple identities for different corporate roles, available on iOS and Android devices
- Enables hybrid cloud deployments (on-prem, private, hybrid, public clouds)

Appealing to Users

- Provides secure, encrypted, protected logins with no more passwords
- Allows users to manage multiple identities with single app
- Authenticate across multiple devices seamlessly
- Simple to use and available on iOS and Android devices

OEM-ready

- SDK available for incorporating into 3rd-party mobile apps
- Can be installed on-premise with company branding
- Easy to integrate

SUPPORTED PROTOCOLS

- Supports OATH 2, SAML
- Native support for Microsoft ADFS
- Integration with many existing applications, CAS and entitlement systems

IMPROVE SECURITY
CypherEye dramatically improves overall security by providing multi-factor authentication using their CypherEye technology

DECREASE MAINTENANCE
No custom hardware to provision, update or decommission

STREAMLINE USER EXPERIENCE
Users don't need to carry additional tokens or remember passwords for different identities or external SaaS services

MULTI-FACTOR AUTHENTICATION
User's mobile phone is a proxy for their digital identity with an optional biometric authentication available via PIN or pattern

ELIMINATION OF THREAT VECTORS
CypherEye protects from:

- Dictionary attack
- Credential stuffing
- Credentials stolen from a central location
- Phishing
- SS7 stack compromise
- Replay
- Man in the middle
- Wireless intercept
- Timing/race conditions
- Mobile trojans