

DATASHEET

FIDO2

Deploy FIDO2 authentication to improve user experience and security, simultaneously



It's well-known that password-based authentication exposes organizations and individuals to too much risk and inconvenience, and there is no clear path to a passwordless ecosystem. As a result, organizations face increasing attacks in both speed and complexity, most of which target the password. Our FIDO2 functionality reduces the reliance on passwords and delivers higher security and an improved user experience for both customers and employees.

The 1Kosmos BlockID Advantage

The 1Kosmos implementation of the FIDO standard emphasizes interoperability. This approach guarantees that FIDO security keys from various vendors and hardware equipment from suppliers will work together efficiently. Furthermore, this interoperability will be achieved with cross-browser support for passwordless authentication.

1Kosmos facilitates seamless interoperability not only among connected web applications but also across workstations by linking the FIDO token to the user account. Our support for FIDO-based authentication also includes Windows and Mac workstations. Users can leverage the BlockID mobile app, which serves as a FIDO authenticator, to log into their workstations.

Additionally, FIDO security keys can be utilized for Windows workstation login without requiring separate registration. Our "register-once-use-anywhere" strategy ensures that security keys only need to be registered once in the control plane.

1Kosmos has several advantages over traditional password-based authentication, including enhanced security, improved usability, and better resistance to phishing attacks.

Our system relies on public key cryptography, so even if a user's credentials are compromised, an attacker would not be able to use them without also having access to the user's FIDO device.

Our "register-once-use-anywhere" strategy ensures that security keys only need to be registered once in the control plane.





1KOSMOS FEATURES AND BENEFITS

- Deploy a register-once-use-anywhere strategy ensure that security keys are device independent
- Support for multiple FIDO authentication methods, including – device and token-based
- Utilize a certified AAL2 FIDO2 authenticator
- Implement FIDO authentication on the web via WebAuthn
- Implement a TOFU approach to desktop or remote desktop login, and virtual machine authentication use cases

Reasons to Consider

- 1Kosmos is a certified FIDO2 solution
- A single platform to manage seven FIDO authentication methods
- Eliminate FIDO authentication silos by deploying a single authentication platform
- Reduce cost and improve security posture
- Flexible deployment ensures security teams can match the authenticator to activity risk

The most advanced FIDO2-certified biometric authentication eliminates password-based attacks and verifies users with over 99% accuracy.

1Kosmos Platform FIDO Authentication

Certified by the FIDO Alliance, the 1Kosmos platform provides a safer, phishing-resistant authentication method via our LiveID authentication which also provides a better user experience to all users.

FIDO on Workstations

Leveraging the device's built-in FIDO tokens, 1Kosmos BlockID gives organizations a way to enforce their access controls. This means that employees, third-party contractors, customers, and citizens alike can use any supported device they want without compromising experience or security. Additionally, users will not be bound by the device yet be able to authenticate across multiple workstations.

FIDO Tokens

1Kosmos BlockID supports the cryptographic capabilities FIDO tokens provide. Where organizations require FIDO tokens to be registered from multiple devices, 1Kosmos links the FIDO token to the user account, thereby avoiding multiple registrations.

FIDO Passkeys and FIDO Keys

1Kosmos provides users the ability to register & authenticate from any device utilizing FIDO2 authentication. All Fido Keys are supported, including enterprise/device-bound passkeys.

Future Proof

The 1Kosmos platform gives the capability to add support for adding any released FIDO key through APIs. Preventing vendor locks from proprietary or otherwise closed technologies that can tie organizations to expensive renewal and maintenance contracts.

About 1Kosmos

©2023 1Kosmos Inc., All rights reserved. 1Kosmos BlockID is a distributed digital identity platform supporting both business-to-employee and business-to-consumer services that easily integrates with existing operating systems, applications, and IT security infrastructure to perform strong, verified identity-based authentication – eliminating the need for passwords, one-time codes, and more. By simplifying identity infrastructure, 1Kosmos drives both cost savings and user convenience while securing businesses and individuals from the harm and inconvenience of identity fraud.