

Passwordless authentication for shared workstations, kiosks, and multiple users of single accounts

The Business Challenge

Shared workstations can offer a flexible and cost-effective approach to equipping the workforce but pose special security challenges. Workers sharing workstations and accounts must be properly identified and their activities must be tracked to the individual.

At the same time, security teams combating phishing, data breaches, and ransomware need to balance security controls with convenient access to systems, applications, and data. Requiring complex passwords and frequent changes to keep accounts safe frustrates users and increases call volume to the IT Service Desk.

Multifactor authentication layered on top of passwords enhances confidence during login but lacks clear identification of an individual and introduces its own costs and security vulnerabilities.

In restricted environments where mobile devices and cameras are prohibited, physical security tokens are often provided to users. However, these keys can frequently be lost or forgotten at home, which leads to unauthorized sharing or increases the cost of issuing duplicate keys to workers.

Predictably, this outdated approach to security results in bloated IT systems, high administrative costs, decreased worker productivity, and slower response times, ultimately leading to a poor experience for both employees and customers.



The 1Kosmos Authentication Advantage

IKosmos offers online and offline access to workstations, allowing convenient access to operating systems, business applications, and mobile apps. It can be utilized through an app, without an app, or via a web browser interface. Additionally, it easily integrates with Entra ID to enhance identity verification or serve as an external authentication method through a ready-made integration.

IKosmos solutions are crafted with distinct features to address user resistance to change and facilitate a smooth transition into a new, modern experience at scale. Deployments for tens of thousands of users generally require 4 to 6 weeks.

The innovative IKosmos IKey physical security token is designed for restricted environments where mobile devices and cameras are prohibited.

1Kosmos modernizes identity and access management with a revolutionary approach that merges identity verification and passwordless authentication into a single, privacy-preserving platform. This eliminates passwords and enhances credentialing processes, delivering robust identity protection with strong authentication and the convenience of advanced biometrics.

Call Centers

Call centers usually employ a temporary workforce responsible for managing customer service, where quick access to various systems is essential. Generally, employees are prohibited from using mobile phones or cameras due to the need to keep customer information confidential.

The innovative IKosmos IKey is a physical security token that supports an unlimited number of users per workstation for passwordless MFA. It is available either with or without a biometric fingerprint reader.

Unlike traditional keys assigned to individuals, the 1Key biometric security key is deployed to workstations and supports a convenient "register once, use anywhere" approach. Once a user enrolls, they gain access to any workstation, system, and application using their registered biometrics. The device is not the factor, the user is.

Because 1Key supports unlimited users, it allows for significant cost savings compared to traditional keys issued to individuals.







Medical Offices

Specialized healthcare workers need secure, quick access to patient information while protecting privacy, but that information tends to be spread across multiple systems and accessed through shared workstations. To prescribe controlled substances online, doctors and physician assistants prescribing controlled substances also need high-assurance identity verification at every login.

The IKosmos platform is certified to FIDO2 and NIST 800-63-3 standards. This supports certified Identity Assurance Level 2 (IAL2) and Authentication Assurance Level 2 (AAL2). IKosmos biometrics are also certified in accordance with ISO/IEC 30107-3d to combat deepfake presentation attacks.

With IKosmos, healthcare workers get an elegant, modern experience. The non-phishable multifactor authentication without passwords eliminates identity-based attacks, improves access to information and ultimately to patient care.

Manufacturing

Production floors frequently feature equipment used by various employees, typically across rotating shifts to enhance utilization. Examples include assembly lines, quality inspection stations, and packaging areas.

Workers there carry out the same or similar tasks at a single station, providing flexibility in staffing and optimizing the use of fixed assets, but raising potential concerns about security and proper user identification.

IKosmos enables workers to log in quickly during shift changes with minimal friction and uniquely identifies each user to track who is using the workstation, creating an immutable log of access events.

Non-phishable biometrics and a variety of authentication modalities including biometrics with liveness detection, finger and face match, device biometrics, physical hardware token and more. This enables workers to quickly perform their job functions while preventing unauthorized access.





Retail

Retail employees and sales associates often share desks, computers and other equipment to optimize space and better service customers even when demand fluctuates significantly.

IKosmos IKey lets employees register once and access devices, systems and applications via a quick fingerprint scan. For customer-facing functions such as point of sale, this enables quick access to information customers need, improving the retail experience.

With IKosmos, both customer service agents and back-office workers are safeguarded against phishing attacks while enjoying quick and convenient access to business systems. This enables them to better support the increased customer traffic that occurs daily and seasonally.





Shipboard Systems

Shipboard systems include navigation, communications, control, automation and more. Many of these systems are designed with single administration accounts that must be shared across users accessing the systems at different times.

IKosmos IKey enables multi-use / single account access, tracking access events by individual and creating an immutable log supporting compliance audits. Non-phishable multifactor authentication prevents unauthorized access, preventing hackers from disabling or tampering with controls.

About 1Kosmos

IKosmos enables remote identity verification and passwordless multi-factor authentication for workers, customers and residents to securely transact with digital services. By unifying identity proofing, credential verification and strong authentication, the IKosmos platform prevents identity impersonation, account takeover and fraud while delivering frictionless user experiences and preserving the privacy of users' personal information. IKosmos performs millions of authentications daily for government agencies and some of the largest banks, telecommunications, higher education, and healthcare organizations in the world.

