yubico

Achieve 100% MFA to protect against modern cyber threats

Lack of an MFA strategy puts you at risk

Multi-factor authentication (MFA) is becoming a critical aspect of cyber defense strategies and cyber insurance mandates across the higher education and K-12 school landscape. According to the 2021 IBM Security Cost of a Data Breach Report, the average cost of a data breach in education is \$3.79 million¹. While MFA can be a strong first-line of defense against modern cyber attacks such as phishing and ransomware, not all forms of MFA are created equal. Legacy authentication such as usernames and passwords can be easily hacked, and mobile-based authentication such as SMS, OTP codes, and push notifications are highly susceptible to modern phishing attacks, malware, SIM swaps, and man-in-the-middle (MiTM) attacks.

Research by Google, NYU, and UCSD based on 350,000 real-world hijacking attempts. Results displayed are for targeted attacks.



Safeguard faculty, staff, and students with the YubiKey

To protect against modern cyberthreats, Yubico offers the YubiKey—a hardware security key for phishing-resistant two-factor (2FA), MFA, and passwordless authentication at scale. It is the only solution proven to completely eliminate account takeovers in independent research².

The YubiKey is simple to deploy and use—a single YubiKey can be used across legacy and modern applications, services, and devices, with multi-protocol support for Smart Card, OTP, OpenPGP, FIDO U2F and FIDO2/WebAuthn on a single key, and doesn't require a battery or internet connection.

YubiKeys are highly suitable for users that can't, won't, or don't use mobile authentication due to teacher's union restrictions, personal preferences, cellular geographic inconsistencies, and more, helping you achieve 100% MFA coverage across your institution.

How the YubiKey can help you secure your technology, data, and users:

1. Meet your cyber insurance requirements

Higher education and K-12 schools can face a shortage of cybersecurity insurance capacity and increased cost for coverage if MFA isn't satisfactorily deployed across the entire ecosystem. Restrictions could include reduced sublimits, higher deductibles, and narrower coverage terms. Cyber policy non-renewals may also be a potential outcome, which can expose a school to significant risk if targeted by hackers, phishing attacks, or ransomware attacks. YubiKeys offer the strongest MFA protection across the industry, ensuring compliance to your cyber insurance mandates.















2. Secure access to data from anywhere, and from any device

Cloud-based SaaS applications such as Google GSuite and Microsoft Office 365, accelerated adoption of online learning platforms, and user mobility have accelerated digital transformation across the academic sector. Faculty, staff, and students need secure and quick access to email, applications, and data from any location—on or off-campus, and from any device.

YubiKeys offer phishing-resistant MFA, ensuring only authorized users have access to the right applications and data. YubiKeys integrate seamlessly with existing identity and access management (IAM) and identity provider (IDP) solutions such as Microsoft, Okta, DUO, Ping, and more than 700 applications and services out-of-the-box, including Google Suite, Microsoft Azure, Microsoft Office 365, Box, Jamf, and identity and credential management (ICAM) solutions, eliminating rip and replacement of existing solutions.

3. Secure shared workstations

With the YubiKey you can secure access to shared workstations and devices with highest-assurance MFA and passwordless authentication, and deliver a convenient user experience—even for remote access. A single YubiKey works across multiple devices including desktops, laptops, mobile, tablets, notebooks, and shared workstations, enabling

Palo Alto Unified School District (PAUSD) Protects Student Data with YubiKeys

PAUSD, located in Silicon Valley, had an incident where student grade information was being exposed on a third party website related to compromised credentials of a teacher's account.

Today, all PAUSD staff use YubiKeys in their daily computing activities. Student information databases are protected by the YubiKey at the staff level, as well as personal data at the parent and guardian level.

users to utilize the same key as they navigate between devices. YubiKeys are also easily re-programmed, making them suitable for temporary faculty and administration staff. They also enable self-service password resets, significantly reducing IT support costs and increasing user productivity.

Lifecycle management: Empower users with YubiKeys

Yubico makes it very convenient to deploy phishing-resistant MFA. You can leverage existing IAM, Identity Credential and Access Management (ICAM) and IDP platforms to manage the issuance, revocation, and policy enforcement of YubiKeys. Yubico also makes it easy to get YubiKeys directly into the hands of your users, through services such as YubiEnterprise Subscription which provides a service-based and affordable model for purchasing YubiKeys, and YubiEnterprise Delivery which provides a turnkey distribution service with shipping and tracking of Yubico products.

Key questions Yubico can help you with:

- ☐ How do I enroll a YubiKey in my MFA platform?
- ☐ How does my help desk support the lifecycle of the YubiKey?
- ☐ Can I centrally manage distribution of the YubiKeys?

Once your users have their YubiKeys, the next step involves registering the keys with the applications and devices they will use. revoking and replacing keys is the recommended next step. If a user leaves, some institutions retrieve YubiKeys prior to their departure while others prefer to allow departing users to keep their YubiKey and continue using it for their own personal accounts.

Trusted authentication leader

Yubico is the principal inventor of the WebAuthn/FIDO2 and U2F authentication standards adopted by the FIDO alliance and is the first company to produce the U2F security key and a multiprotocol FIDO2 authenticator. YubiKeys are produced in the USA, maintaining security and quality control over the entire manufacturing process.



The YubiKey 5 Series and Security Key Series

From left to right: YubiKey 5 NFC, YubiKey 5C NFC, YubiKey 5Ci, YubiKey 5C, YubiKey 5 Nano, YubiKey 5C Nano, Security Key NFC and Security Key C NFC

¹ https://www.ibm.com/account/reg/us-en/signup?formid=urx-50915

² https://security.googleblog.com/2019/05/new-research-how-effective-is-basic.html