Evolving Your Cybersecurity Together

IAM Solutions for Higher Education
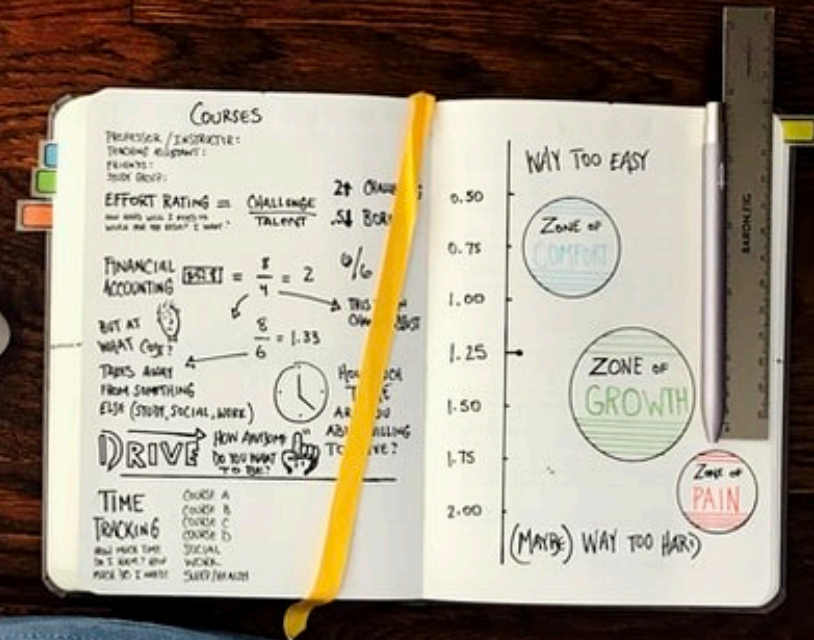
BIO-key®

Introduction

Higher education institutions of all sizes face a growing complex of cybersecurity threats. The industry has been under high attack for several years already, with phishing, ransomware and denial-of-service attacks growing in frequency and ferocity. At the same time, student success now depends on a modern digital experience, with 87% of students saying that a school's tech-savviness was an important factor in their decision to enroll.[1]

Institutions find themselves stuck, having to choose between user experience or stricter cybersecurity.

1. https://www.ecampusnews.com/2018/09/04/5-technologies-that-will-help-colleges-meet-digital-age-students-expectations/

Challenges to Implementing Identity & Access Management (IAM)

Critical IAM controls such as multi-factor authentication (MFA) and single sign-on (SSO) can be challenging to implement in a cohesive way.

While IAM controls are essential, implementing them in a cohesive way with limited resources and budget often result in a disjointed strategy and increased overhead.
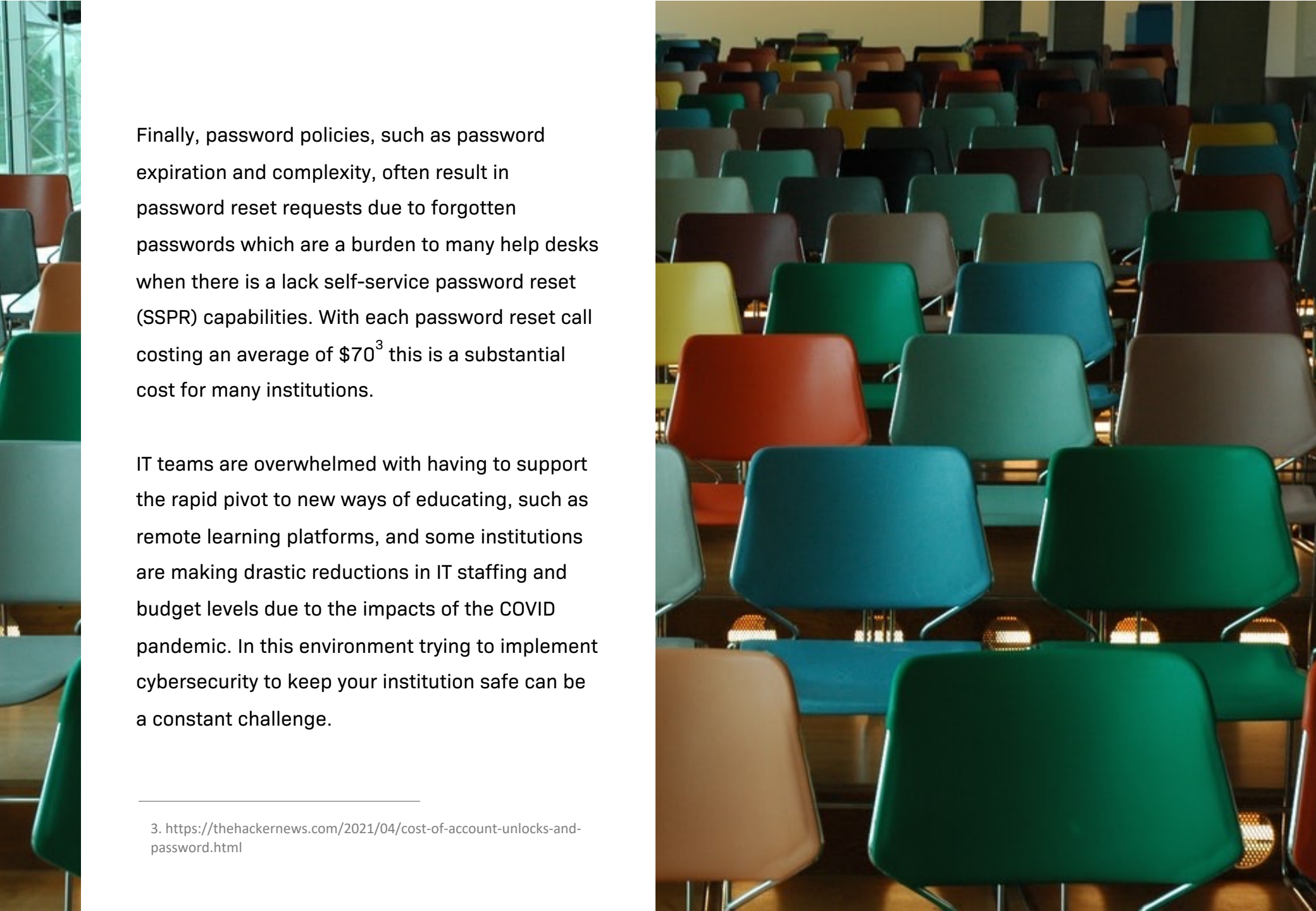
For example, the U.S. national security cyber chief has figures showing that multi-factor authentication could prevent as much as 80-90% of cyberattacks[2] but finding a single solution with all the authentication methods to support students, faculty, and staff is a challenge.

Your own MFA strategy may now include multiple siloed solutions, such as one to provide a mobile authenticator, another for push tokens, and yet another for hardware tokens, all of which are managed with separate security policies.

Single sign-on (SSO) is also disjointed in many institutions often including a mix of homegrown, open source, and commercial solutions, which still leave critical applications on the sidelines, with a password prompts getting in the way as users try to access them.

2. https://www.infosecurity-magazine.com/news/tech-execs-mfa-prevent-90-of/

Finally, password policies, such as password expiration and complexity, often result in password reset requests due to forgotten passwords which are a burden to many help desks when there is a lack self-service password reset (SSPR) capabilities. With each password reset call costing an average of $70[3] this is a substantial cost for many institutions.

IT teams are overwhelmed with having to support the rapid pivot to new ways of educating, such as remote learning platforms, and some institutions are making drastic reductions in IT staffing and budget levels due to the impacts of the COVID pandemic. In this environment trying to implement cybersecurity to keep your institution safe can be a constant challenge.

3. https://thehackernews.com/2021/04/cost-of-account-unlocks-and-password.html

For more than a decade higher education institutions have trusted BIO-key because of our expertise in higher education.

"Versatile, secure, flexible, and excellent Identity Solution!"

★★★★★

Read the Review

"Portalguard has been an excellent, comprehensive and most importantly versatile solution that has allowed us to quickly and almost painlessly roll SSO out to over 20k users."

★★★★★

Read the Review

"Great product overall, Helped us deliver a better experience for our students, faculty and staff!"

★★★★★

Read the Review

Over 200+ institutions, including 65+ community colleges use BIO-key today.

SPOTLIGHT
Foundation for California Community Colleges (FCCC)

Since 2014 BIO-key has partnered with the FCCC to help improve the system's cybersecurity posture.

- Trusted by 50+ colleges and districts
- Special discount through CollegeBuys contract
- 2022 Partner in Education
- Annual sponsor of CISOA technology summit

"Since we implemented BIO-key PortalGuard, password reset help desk calls have decreased dramatically. The Single Sign-On implementation could not have been easier, and we have since integrated it with SharePoint, Blackboard, Canvas, OWA, and WebAdvisor. The product is simple to configure and maintain. We could not be more pleased with how this product and company have worked for our needs."

- Clifford Sharp, Network Systems Analyst, Southwestern Community College

CHIEF INFORMATION SYSTEMS
CISA
OFFICERS ASSOCIATION
EST. 1987
2022 STRATEGIC PARTNER

Why do institutions select BIO-key?

With BIO-key you don't have to manage your IAM strategy alone. Our customer success team and security practitioners are experts in higher education. Think of them as part of your team because that's exactly what they are. They'll work with you to understand your institution's unique requirements and partner with you to take on any heavy lifting, so your IT team doesn't have to.

Implementing BIO-key PortalGuard is a cybersecurity "quick win" as it helps you evolve your cybersecurity posture with the resources you already have.

Single, award-winning platform aggregates and consolidates security point solutions under centralized security policies
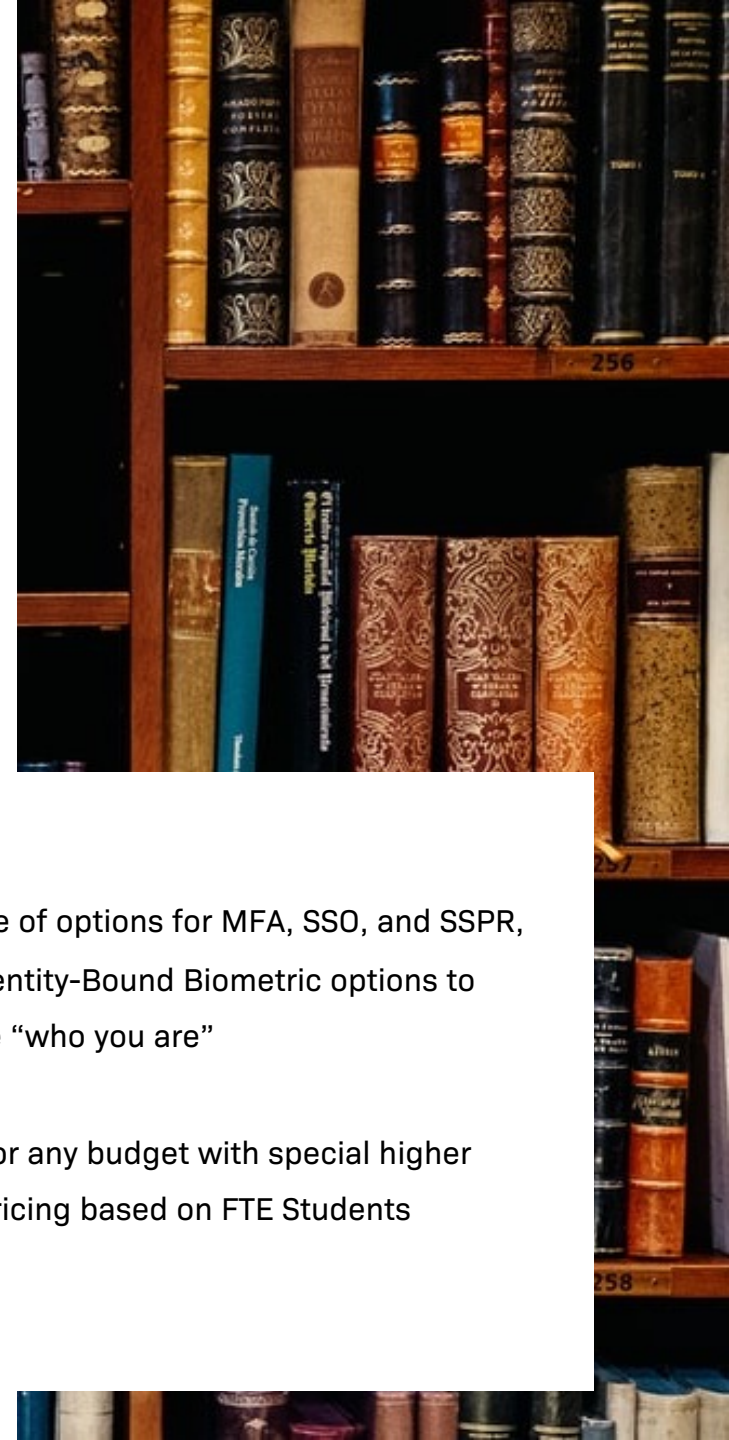
Amazing customer support that combines product know-how with IAM expertise to ensure you're getting the most out of your solution

Widest range of options for MFA, SSO, and SSPR, including Identity-Bound Biometric options to authenticate "who you are"

Affordable for any budget with special higher education pricing based on FTE Students

IAM that benefits your institution

BIO-key customers experience benefits not only for their students, faculty, staff, and IT teams but also their institution as a whole.

- **Improve security across your institution** – reduce cyber risk by implementing consistent security policies across all systems, platforms, applications and devices to enforce stronger security, including multi-factor authentication.

- **Simplify the lives of students, faculty, and staff with a modern login experience** - enable users to easily access systems, regardless of where they are, what time it is and what devices they are using.

- **Improve the efficiency and effectiveness of security teams** – centralized administration helps streamline critical aspects of managing identities, authentication, and authorization.

- **Maintain regulatory compliance and meet cyber insurance requirements** - prove where and how user credentials are used and demonstrate that data is protected with the proper controls.

- **Increase business agility –** support new services and systems your institution implements with SSO and centralized policy management, to quickly secure access to these systems without creating additional security silos.

- **Reduce management and IT costs –** simplified password management prevents password reset calls and simplifies management for help desk employees and administrators, so time spent on mundane tasks can now be spent on high-priority tasks. With a single, unified IDaaS solution costs are reduced as siloed solutions are consolidated and the need to buy and maintain on-premises infrastructure is reduced or eliminated.

BIO-key PortalGuard®

An award-winning platform to secure Access for students, faculty, and staff.

Multi-factor Authentication (MFA)
Wide range of authentication methods for flexible, powerful identity security

Identity-Bound Biometrics™
Biometric authentication for the highest levels of integrity and convenience

Single Sign-on (SSO)
Reduce password prompts and secure access to all apps from single IdP

MobileAuth™
Multi-factor authentication app that offers Identity-Bound Biometric authentication options & push tokens

Self-service Password Reset (SSPR)
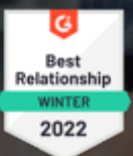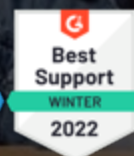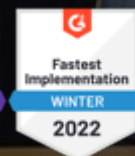Reduce password-related IT support calls by up to 95%

Hardware Devices
Offer a variety of hardware devices including Microsoft-qualified Windows Hello USB fingerprint scanners & FIDO-key hardware tokens

Deployment Options
PortalGuard can be deployed on-premises, in your cloud, or as Identity-as-a-Service (IDaaS) platform in AWS.

Flexible Multi-factor Authentication (MFA)
Secure all access & keep your institution safe

Aggregate and consolidate all your authentication methods under centrally managed security policies.

- Wide range of out-of-the box authentication methods

- Easily integrate existing solutions (e.g., DUO Security, Yubikey, & MS Authenticator)

- Supports contextual authentication & passwordless approaches

- Users can select the authentication option(s) that work for them

- Granular security policies configured down to the group, OU, or individual

- Secures browser and desktop logins

Increased Security Assurance →

| Security Q&A | SMS & Email OTP | Hardware Tokens | Software OTP | Push Token | Smart Card Login | FIDO 2.0 & WebAuth | Biometric Authentication |

Complete your MFA with Identity-Bound Biometrics

Identity-Bound Biometrics (IBB) offer the highest level of integrity by binding a biometric to the user's digital identity.

- Centrally stored biometrics
- Non-reversible hashed biometric data
- Strict session management
- Captured on fingerprint scanners or via BIO-key MobileAuth™
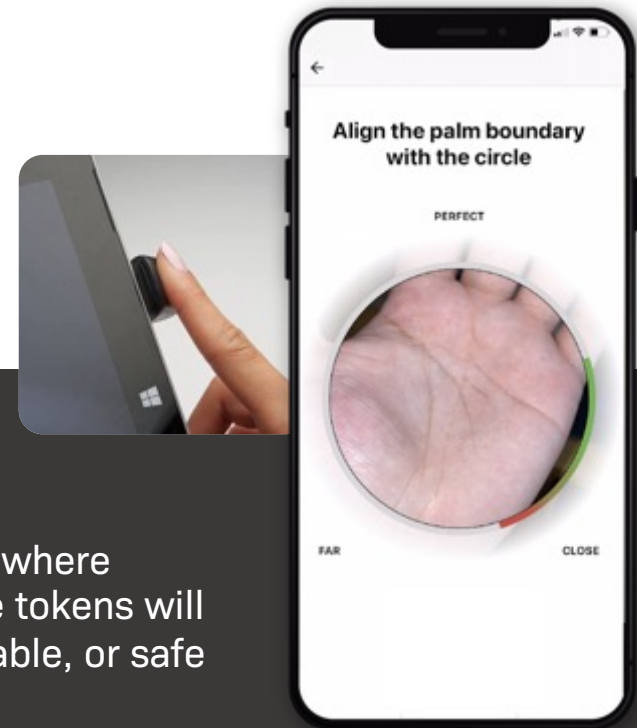
Cannot be handed over, shared, forgotten, or stolen

Perfect for situations where phones and hardware tokens will not work, are not reliable, or safe

Enterprise-controlled enrollment

Affordable and easy to implement

Align the palm boundary with the circle

PERFECT

FAR

CLOSE

# SSO to eliminate passwords and SSPR to reduce help desk calls

Customers using PortalGuard's Self-Service Password Reset (SSPR)

capabilities reduce help desk calls by 95% or more.

Single Sign-on (SSO)

- Protect on-premises, legacy, thick client, and web applications from a single Identity Provider (IdP)

- Supported standards include SAML 2.0, Shibboleth, WS-Federation, OAuth 2.0, OpenID Connect 1.0, CAS 3.0+

Self-service Password Reset (SSPR)

- Supports password reset, account unlock, password expiration, password & username recovery, and offline password recovery

- Available for browser & desktop/OS logins
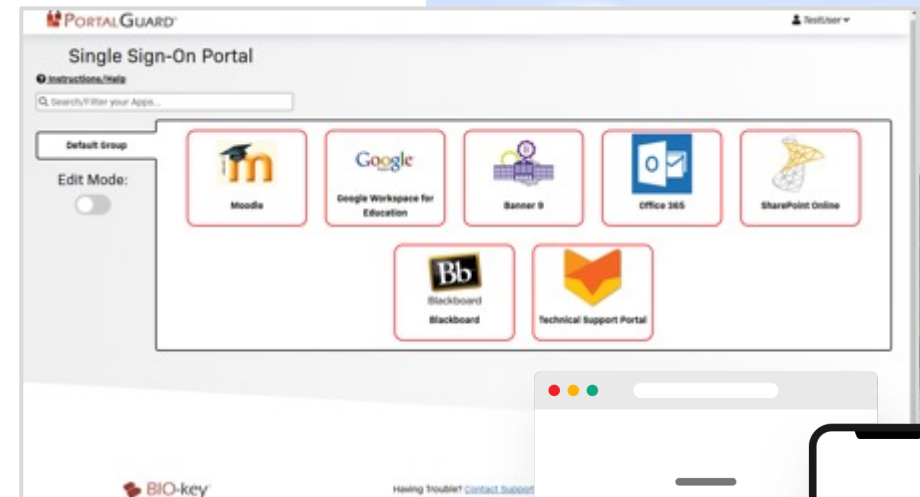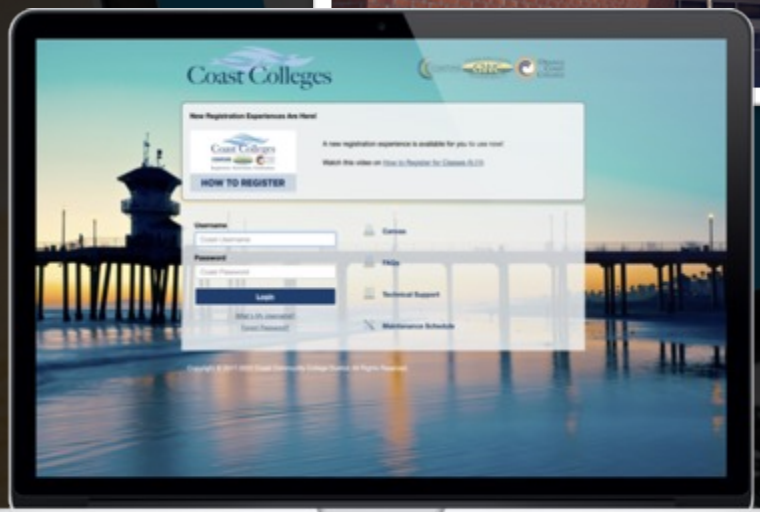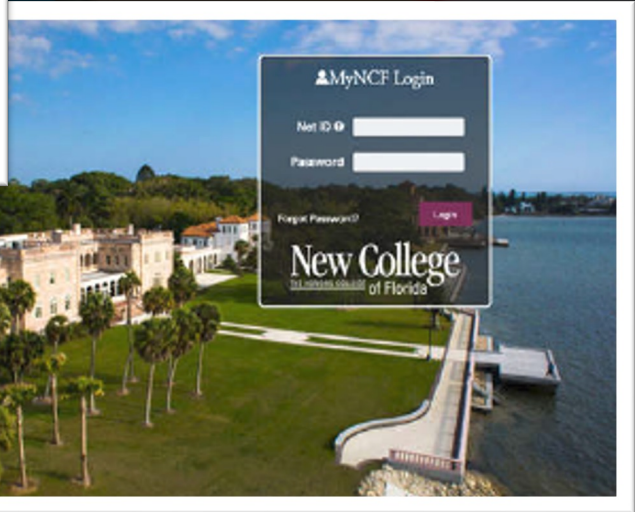
Fully customizable UX for a modern, branded login experience that students, faculty, and staff will love.

Want to learn more?

Contact the BIO-key Team

In the meantime, here are resources for you to learn more about cybersecurity, BIO-key's solutions, and how institutions are using them today. Additional resources are available in our online Resource Center.

- **WHITEPAPER:** Cybersecurity in Education

- **WEBINAR:** The Future of IAM for Education: How Colleges are Combating the Increase in Cyberattacks

- **WEBINAR:** NICC's Journey to a Secure Student Experience

- **DATA SHEET:** BIO-key PortalGuard

- **COMPETITIVE:** 5 Reasons DUO Security Customers Choose PortalGuard

- **CASE STUDY:** Contra Costa Community College District

- **CASE STUDY:** Southwestern Community College District

About BIO-key International

BIO-key International is a trusted provider of Identity and Access Management (IAM) and Identity-Bound Biometric solutions that enable convenient and secure access to devices, information, applications, and high-value transactions.

BIO-key offers the simplicity and flexibility required to secure the modern digital experience for on-prem and remote users, while easing the burden on IT teams.

BIO-key PortalGuard is a fully unified Identity-as-a-Service (IDaaS) platform with industry-leading biometric authentication options, single sign-on, multi-factor authentication, adaptive authentication, and self-service password reset.

Backed by decades of expertise, BIO-key has a proven track record of successful IAM project delivery, strong partner relationships, and low TCO.

More information is available at www.BIO-key.com

Learn More:

https://www.bio-key.com/expertise-in-education/

BIO-key®