



YubiKey FIPS Series: FIPS 140-2 Validation Ensures Strong Security and Compliance for the Public Sector

Digital transformation raises data breach risks

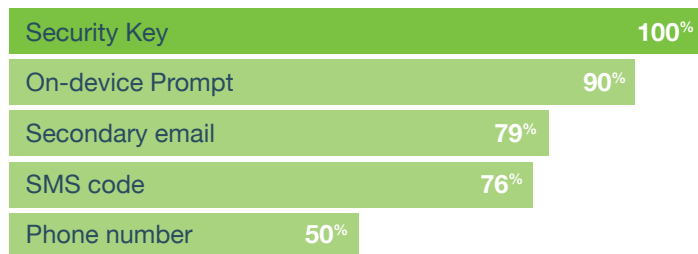
Digital transformation is a challenge for any organization, but for government entities the complications are increased and the stakes are even higher. Numerous regulations need to be met and government employees are especially likely to be targets of cyber-attacks by hackers, hacktivists, and nation states.

YubiKeys offer federal compliant, highest assurance multi-factor authentication

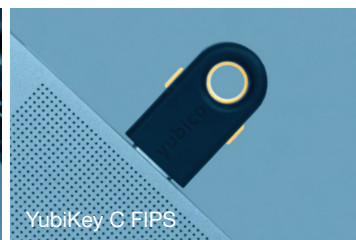
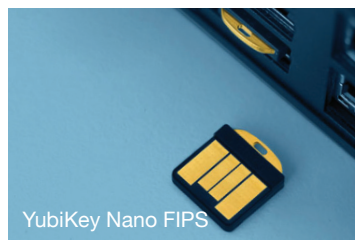
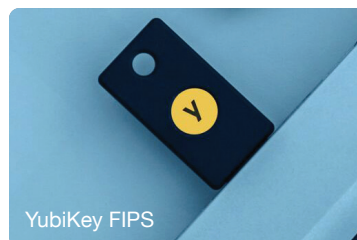
YubiKeys offer the best available security against phishing attacks and account takeovers and are FIPS 140-2 validated to meet the highest authentication assurance level 3 requirements (AAL3) of NIST SP800-63B guidelines. YubiKeys are also FIDO U2F and DFARS/NIST SP 800-171 compliant, and are approved for use in DOD Non-Classified and Secret Classified Environments.

YubiKeys have been proven to offer the highest levels of security against account takeovers in independent research, preventing targeted attacks.

Account Takeover Prevention Rates



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



Strong hardware-based security

The YubiKey is a hardware-based solution that:

- Offers multiple authentication and cryptographic protocols including FIDO U2F, Personal Identity Verification-compatible (PIV) Smart Card, and Yubico One-Time Password (OTP) to protect employee, contractor, vendor and citizen access to computers, networks, and online services with just one touch
- Provides strong authentication without compromise to help you go passwordless, modernize multi-factor authentication and even modernize smart card deployments
- Is FIPS 140-2 validated and can accommodate derived PIV/CAC requirements
- Works across major operating systems including Microsoft Windows, macOS, Android, and Linux, as well as leading browsers

Government agencies can use YubiKeys to:

- Ensure strong security for non PIV/non CAC eligible users
- Deploy highest assurance authentication for mobile derived PIV and BYOD/BYOAD
- Modernize authentication for privileged users
- Secure user access to closed/air gap networks
- Deploy fast, one-touch authentication for first responders
- Secure sensitive information across government elections and political campaigns

YubiKey: Proven, easy-to-use security that's trusted by the world's leading companies

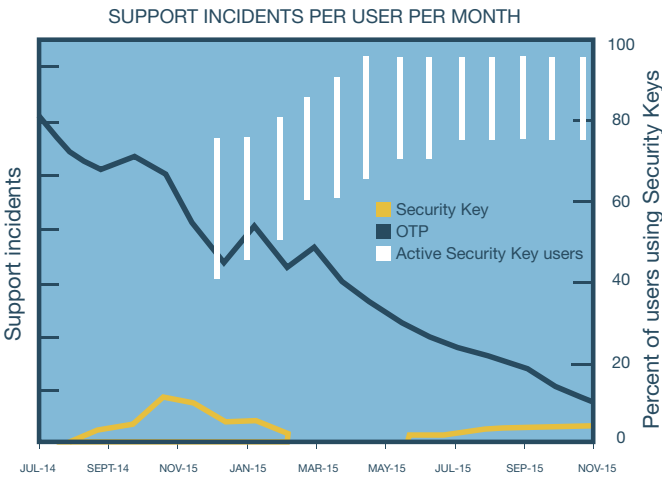
Phishing defense for secure Public Sector authentication

The YubiKey stores the authentication secret on a secure element hardware chip. This secret is never transmitted and therefore cannot be copied or stolen.

Reduces IT costs

The YubiKey dramatically reduces the number one IT support cost—password resets—which cost Microsoft over \$12M per month.¹

By switching from mobile OTPs to YubiKeys, Google reduced password support incidents by 92% because YubiKeys are more reliable, faster, and easier to use.



This graph illustrates how quickly Google reduced password support incidents after switching from OTP to YubiKey.²

Easy to use, fast, and reliable

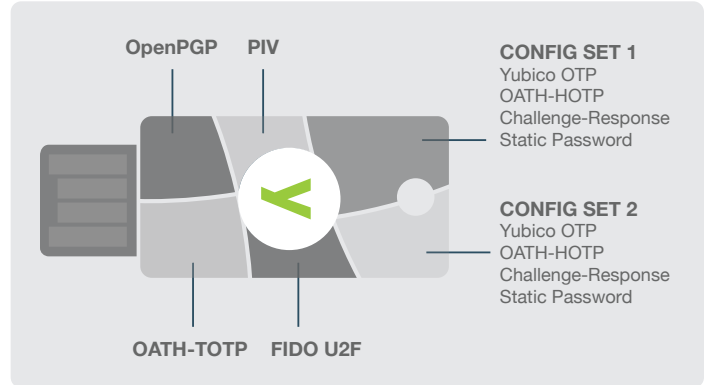
Users don't need to install anything—customers or employees simply register their own YubiKey, enter their username and password as usual, and plug in and tap the YubiKey when prompted.

The YubiKey FIPS and YubiKey C FIPS conveniently fit on a keyring, while the YubiKey Nano FIPS and YubiKey C Nano FIPS are designed to remain in the USB port. This ensures every YubiKey is easy to access and provides the same level of digital security. The YubiKey FIPS / Nano FIPS are crush-resistant and waterproof.

About Yubico Yubico sets new global standards for easy and secure access to computers, servers, and Internet accounts. Founded in 2007, Yubico is privately held with offices in Australia, Germany, Singapore, Sweden, UK, and USA. Learn why nine of the top 10 internet brands and millions of users in more than 160 countries use our technology at www.yubico.com.

Easy to deploy

IT can deploy YubiKeys in days, not months. A single key can access several modern and legacy systems, which eliminates the need for separate keys or extra integration work.



YubiKey capabilities: These functions are included in the YubiKey FIPS, YubiKey C FIPS, YubiKey Nano FIPS, and YubiKey C Nano FIPS security keys. Technical specifications are available at yubico.com.

Trusted authentication leader

Yubico is a principal inventor of the WebAuthn/FIDO2 and U2F authentication standards adopted by the FIDO Alliance and W3C, and is the first company to produce the U2F security key and a multi-protocol FIDO2/WebAuthn authenticator.

YubiKeys are produced in the USA, maintaining security and quality control over the entire manufacturing process.

FIPS 140-2 Validated

Protect your organization with the FIPS 140-2 (Overall Level 2, Physical Security Level 3) validated version of the industry leading YubiKey multi-factor authentication solution. The YubiKey FIPS Series enables government agencies and regulated industries to meet the highest authenticator assurance level 3 (AAL3) requirements from the new NIST SP800-63B guidance.

¹ "Saying Goodbye to Passwords," Alex Simons, Manini Roy, Microsoft Ignite 2017

² Security Keys: Practical Cryptographic Second Factors for the Modern Web, Google Inc.

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