

HID Approve™

Intuitive mobile push authentication and transaction signing

HID Approve allows employees, contractors and customers to authenticate their access requests and sign transactions with their mobile device or PC. This can be achieved by either providing a secure code or push notification.

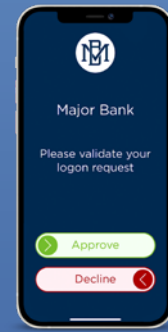
HID Approve offers a comprehensive range of security policy customizations, suited to each organization's unique risk-profile. This enables organizations to strike a better balance between security and usability.

Additionally, organizations can easily and securely customize the HID Approve user interface with their own logo and color schemes via server-side configuration. This ensures your users understand who is asking for verification.

The flexible and secure activation process of HID Approve ensures that each user's device is securely personalized using state-of-the-art cryptographic protocols, provided through a straightforward and easy user experience.

HID Approve's security posture is second to none. It was built following industry-defined security best practices and is backed by third-party penetration tests and independent audit reviews.

HID Approve is part of the HID Global authentication platform that enables organizations to achieve a maximum return on investment for securing their authentication and fraud prevention needs. More information about these solutions can be found on www.hidglobal.com/IAM.



- **Plug in Your Mobile and Online Identity Journey** – Integrate HID Approve to create your own customer journey with our SDK or create your own fully customizable application
- **Simple and Convenient Authentication** – Mobile push notification with an intuitive swipe motion or secure code generation (OTP) makes secure access to VPN and corporate applications easier than ever for employees as well as IT admins
- **Highest Security Protocols and Cryptography Standards** – Customizable security policies to secure modern communication channels and prevent fraud
- **Compliance With Global Regulations** – Facilitates the ability of organizations to meet open banking regulations (such as PSD2) and industry recognized standards, such as payment card industry data security standard (PCI-DSS) and FIPS 140-2 with a GDPR native solution

BENEFITS:

- **Seamless User Experience** – An easy-to-integrate solution that is simple and intuitive to use
- **Compliance Made Easy** – Facilitates the ability of organizations to meet global regulations with highly customizable security and data protection privacy
- **Unparalleled Security** – Highest security protocols and cryptography standards with customizable security policies
- **Low Cost of Ownership** – No need to publish and maintain a bespoke standalone app
- **Flexible Deployment** – Choice between a mobile app or SDK



HID Professional Services

Technical expertise and project management resources are available to assist in the complete design and implementation of your customized HID Approve solution, or to integrate our Software Development Kit into your own app. Visit www.hidglobal.com/professional-services to learn more.

SYSTEM FEATURES:

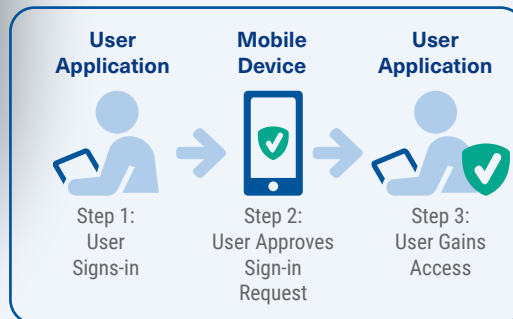
- Mobile push notification, and public key cryptography-based authentication and transaction validation
- Confidential and anonymous data in push notifications
- Fully customizable and fine grained security policies – for example, independent and optional password protection on mobile credentials
- Easy server-side configuration for mobile app branding
- Runtime Application Self-Protection (RASP) to detect and prevent real-time app attacks
- User device Integrity detection capabilities, such as: tamper detection, anti-cloning, Jailbreak and root detection
- Mobile SDK option for integration into corporate apps
- Protect web apps, cloud apps and VPN
- Interoperability with cloud or on-premise deployments
- FIPS 140-2 L1 compliant (when deployed in FIPS mode)
- Policy-driven key rotation
- Customizable company contact details

USER/CUSTOMER FEATURES:

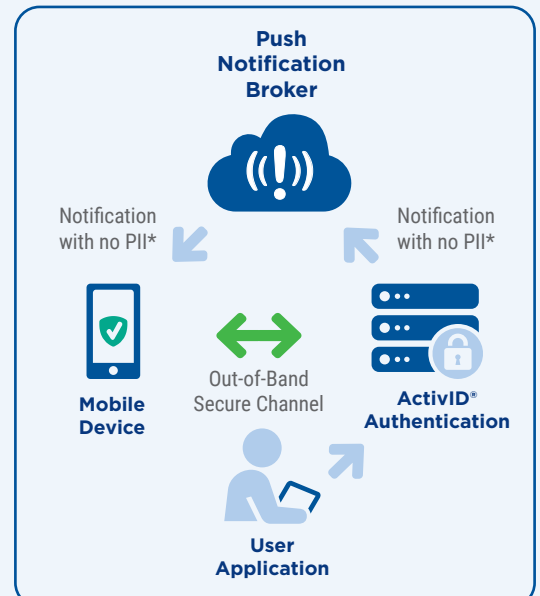
- Secure channel out-of-band activation and authentication
- Easy and flexible user activation with QR codes or manual entry
- Optional use of platform-based biometrics (e.g. facial recognition or fingerprint) for credential protection
- Users can register multiple devices for their convenience
- Users can register multiple accounts with multiple service providers in a single app
- Secure Code (One Time Password) option for mobile offline scenarios in case of connectivity challenges
- Reliable Digital Signatures – the content of signed messages cannot be changed, by accident or intent, balancing security and convenience
- Support for 15 languages out-of-the-box

Authentication Methods	<ul style="list-style-type: none"> • Mobile push with public key cryptography • One Time Password: OATH HOTP Event, TOTP Time-based, OCRA
Protocol and Cryptography Standards	OIDC/OAuth2, TLS v1.2, x509, HPKP rfc7469, ECDH, 800-56 KDF, PKCS#5, ECC, RSA2048, AES256, OATH, HMAC-SHA2, FIPS 140-2 L1 compliant
Platforms	<ul style="list-style-type: none"> • iOS • Android • Windows 10
Secure Key Generation and Storage	<ul style="list-style-type: none"> • Android KeyStore (hardware backed on versions 4.3 later) • iOS KeyChain (hardware backed)

HID APPROVE USER EXPERIENCE



OUT-OF-BAND SECURE CHANNEL



*No Personally Identifiable Information in Push Notifications.



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