



Mobile Authenticator Studio

Security meets convenience: enhanced mobile application security paired with a frictionless user experience

HIGHLIGHTS

Beyond authentication

OneSpan Mobile Authenticator Studio goes beyond authentication to ensure that the app running on mobile is self protected during application runtime. Our application security includes the following features:

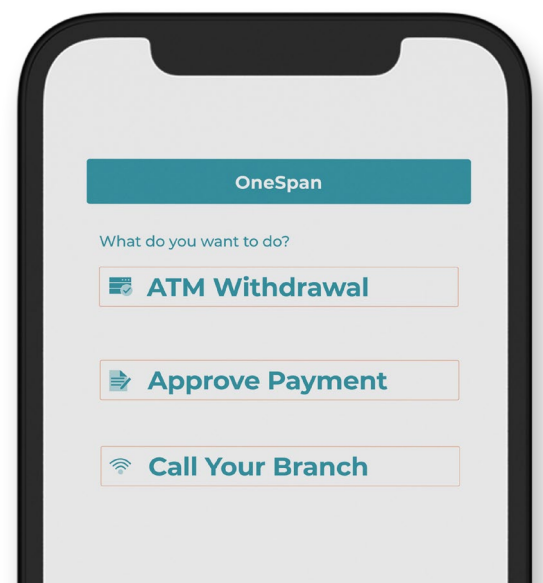
- jailbreak & root detection
- application hardening
- device binding
- secure channel communication
- enhanced risk analysis
- anti-cloning

Banks, financial institutions and enterprises offering online and mobile applications face multiple challenges. Online and mobile applications are highly susceptible to cyber attacks and fraud, which, over recent years, have become increasingly sophisticated. At the same time, adoption of mobile applications depends on an intuitive and seamless experience for users. How do you ensure security of your mobile application while keeping it convenient and transparent for your mobile users?

“OneSpan's solutions differentiated from other vendors' solutions because the solution is easy and intuitive to use. We particularly liked the simple approach applied to tokens for mobile devices. The deployment of the new solution was fast and efficient, and we were confident in OneSpan's ability to support the implementation with minimum fuss.”

Chris White
Chief Information Officer
Clyde & Co

OneSpan Mobile Authenticator Studio balances the need for stronger application security with demands for user convenience by delivering comprehensive, built-in security for your mobile applications, combined with a frictionless, “hands-free” authentication and e-signing experience for your mobile users. And when combined with OneSpan Mobile Security Suite, OneSpan Mobile Authenticator Studio offers a comprehensive and integrated security framework for your mobile applications.



HIGHLIGHTS

User convenience first

User experience is a determining factor in the adoption of your mobile application. OneSpan takes friction out of the equation with the following features:

- Transparent OTP
- QR code scanning for logon or transaction validation
- Multi-device support
- Inter-application security

Developer friendly

- Fully customizable GUI
- Granular security and policy tools
- Test pilot up and running within one day
- Flexible provisioning
- Off and online deployment options
- Supports multiple device platform

Enhanced Application Security

For any mobile application, creating a secure environment for the user authentication process is critical. That's why Mobile Authenticator Studio goes beyond authentication to ensure that any application running on a mobile platform is self-protected in all the aspects of application runtime:

- **Jailbreak & Root Detection:** Ensures the security of mobile platforms by detecting if rooting or jailbreak evidence is present, so you can take proper action depending on your security policies.
- **Application Hardening:** Supports best in class hardening techniques including memory zeroing, reverse engineering protection, secure storage, and white box cryptography to keep applications and users safe from potential attacks.
- **Device Binding:** Securely links an authorized user to his authorized device(s), which can prevent cloning or repurposing of cryptographic keys. The Mobile Authenticator Studio application itself is also bound to device-dependent components and linked to the user via a secure PIN code.
- **Secure Channel Communications:** Ensures the integrity of digital transactions by providing an encrypted, independent and cross-platform secure channel between the server and the client device, so that only devices authorized to receive transaction information will be able to decrypt and sign it.
- **Enhanced Risk Analysis:** Offers unique risk scoring capabilities that are embedded into the authentication and signing processes based on user, platform and context elements of the application, delivering stronger protection as well as server-side risk analysis.
- **Anti-cloning:** For Android operating systems, OneSpan supports secure storage protection through the Secure element feature of the device. Securing data on enabled Android phones is achieved via a second layer of encryption, providing an excellent defense against application cloning attacks as the encryption key stored in the Secure element cannot be extracted.

Transparent User Experience

When it comes to user adoption of your mobile application, user experience can often be a determining factor in its success or failure. Mobile Authenticator Studio offers convenient, user-friendly two-factor authentication and e-signing options that take security "friction" out of the equation:

- **QR Code Scanning:** Users simply capture the QR code with a mobile device, enter a PIN code and can instantly log on to an application or validate a transaction. Integrates with OneSpan's patented Cronto® technology as well as Open QR codes.
- **Transparent OTP:** Offers "hands free" authentication and signing when a user is conducting an online session, and is flexible enough to provide transparent OTP or generate an e-signature that is automatically directed to the relevant server. To the user, this means no need to type any information, and a secure and completely friction-free authentication experience.
- **Multi-Device Support:** Ensures that a user can securely leverage any pre-registered device for application authentication and transaction signing, regardless of platform. Secure channel capabilities ensure that encrypted information sent from the server can only be decrypted and accessed by the pre-authorized set of devices for that user.
- **Inter-Application Security:** Between applications, Mobile Authenticator Studio will perform needed security checks, generate the OTP, and pass it directly to the applicable server, so that the user can instantly establish secure access for virtually any application on the client-side.

Streamlined integration, provisioning and deployment

Application development and deployment can be an arduous process, which is why we designed Mobile Authenticator Studio to be flexible and friendly for developers throughout the process. OneSpan Professional Services also offers a complete suite of implementation options, providing full-service support for everything you may need, from parameter selection and testing to complete design customization, multi-device provisioning, App store publishing and training.

- **Customization:** Offers a fully customizable GUI, a complete set of branding and publishing tools, localization capabilities, flexible menu and form design options, and granular security and policy tools.
- **Integration:** Provides a web sample to simplify the integration into your current server architecture. A typical test pilot can be up and running within one day and can demonstrate how the software will integrate prior to production.
- **Provisioning:** Enables flexible provisioning by offering a set of provisioning protocols using asymmetric keys as well as alternative options. Can also be done via an HSM server-side implementation to allow for the most secure key provisioning.
- **Deployment:** Offers off-line or online deployment options as well as deployment through QR codes. Mobile Authenticator Studio has been successfully deployed on a large scale throughout the banking community, and can be deployed simultaneously with other OneSpan devices.
- **Support:** Supports almost any mobile device platform, including iPhone, Android, Blackberry and Windows, as well as eight different crypto-applications, allowing an extended use in different settings such as IVR, online connections, signatures, offline transactions, etc.

TECHNICAL SPECIFICATIONS	
Response only	<ul style="list-style-type: none"> • Time only, event only or Time + event-based • AES/Triple DES Encryption Algorithm • Response: 6 to 16 decimal/hexadecimal • Check digit • 256 seconds Time Step
Host Confirmation Code	<ul style="list-style-type: none"> • AES/Triple DES • Length from 4 to 10 Decimal/Hexadecimal (1 to 10 in challenge/response mode)
Challenge/ Response	<ul style="list-style-type: none"> • Time only, event only or Time + event-based • AES/Triple DES Encryption Algorithm • Challenge length from 4 to 16 decimal • Response length from 6 to 16 decimal/hexadecimal • Check digit • 256 seconds Time Step
MAC/ signature	<ul style="list-style-type: none"> • Time only, event only or Time + event-based • AES/Triple DES Encryption Algorithm • Length from 4 to 16 decimal/hexadecimal • Up to 8 customizable data fields • Data field length from 4 to 16 digits • 256 seconds Time Step
PIN management	<ul style="list-style-type: none"> • PIN length options: no PIN or 4 to 250 digits • Max number of wrong entries from 1 to 9 • On wrong PIN: invalid password generation or reset • PIN check options : Checksum/ Hashcode/None • PIN change option • PIN derivation iteration from 0 to 15,000
Standard algorithms	<ul style="list-style-type: none"> • HOTP • TOTP • OCRA

About OneSpan

OneSpan, the digital agreements security company™, helps organizations accelerate digital transformations by enabling secure, compliant, and refreshingly easy customer agreements and transaction experiences. Organizations requiring high assurance security, including the integrity of end-users and the fidelity of transaction records behind every agreement, choose OneSpan to simplify and secure business processes with their partners and customers. Trusted by global blue-chip enterprises, including more than 60% of the world's largest 100 banks, OneSpan processes millions of digital agreements and billions of transactions in 100+ countries annually.

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