

Darkpaper
Sqrow bKYC
Behavioral biometrics 2.0

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1. Introduction

1.1. History of behavioral biometrics

Behavioral biometrics represents a paradigm shift in the field of authentication. Unlike traditional methods based on static identifiers such as passwords or personal data, behavioral biometrics authenticates users based on their unique behavior patterns. This approach offers dynamic, user-centric, and more secure means of identity verification without compromising confidential personal information.

1.1.1. Evolution of identity verification

Traditional Know Your Customer (KYC) protocols require users to provide identity documents, posing risks in cases of personal data theft or other forms of fraud. An alternative to this authentication method is behavioral biometrics, which, outside the crypto industry, relies on analyzing human characteristics such as handwriting, voice, gait, and other data to identify individuals. This technology is employed in fields like medicine, banking, and security, ensuring high accuracy and reliability in identity verification.

1.1.2. Impact of Sqrow bKYC

The Sqrow ecosystem aims to pioneer the integration of behavioral biometrics into the identity verification process (KYC). Sqrow bKYC is a groundbreaking solution utilizing artificial intelligence among other technologies to authenticate users based on their unique behavioral actions. This approach eliminates (or complements) the need for providing identity documents for KYC, ensuring the highest level of security.

1.1.3. Key objectives of Sqrow bKYC

Sqrow bKYC is designed to provide highly secure and convenient methods of user identity confirmation, linking data to their digital wallets based on natural behavioral actions.

Key objectives include:

- Confirming identity without disclosing personal data.
- Secure authentication of transactions based on behavioral models.

- Integration with other Sqrow subsystems to enhance overall ecosystem security and user convenience.

1.1.4. Expected impact on the broader crypto landscape

Sqrow bKYC represents technological progress with far-reaching consequences beyond the Sqrow ecosystem. Its potential to revolutionize identity verification, enhance security, and prevent fraud may establish new industry standards for secure and convenient authentication in the crypto industry.

2. Key principles of Sqrow bKYC

★Redefining identity confirmation:

Instead of relying on documents or passwords, bKYC authenticates individuals based on their natural and unique behavior. This transformative approach enhances security, accuracy, and usability in the authentication process.

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- ★ **Behavioral biometrics vs. traditional KYC:** While traditional KYC requires revealing confidential personal data for identity verification, behavioral biometrics focuses on how people naturally interact with their devices. This shift from static identifiers to dynamic behavior patterns expands user capabilities, offering increased security and convenience.
 - ★ **User-centric authentication essence:** Sqrow bKYC is based on a principle that allows people to effortlessly and securely confirm their identity through their natural behavior. This human-centric approach not only enhances security but also provides a more intuitively understandable and accessible authentication process for users.
 - ★ **Linking identity to wallets:** One of the key goals of Sqrow bKYC is to «attach the soul» of users to their digital wallets. By using behavioral actions to confirm identity, the system reliably associates a person's identity with one or several wallets. This not only simplifies the authentication process but also enhances the security of digital assets.

★ **bKYC and personal data protection:** By confirming identity based on actions rather than static information, bKYC offers reliable protection against personal data theft and fraud. This emphasis on protecting users' personal data aligns with Sqrow's commitment to providing a safe and secure environment for its users.

★ **Role in crypto security and trust:**

Sqrow bKYC does not request users' personal data during the authentication process, increasing trust in the product and enhancing security in the crypto space.

3. Mechanisms and operation of Sqrow bKYC

The authentication process through bKYC involves seamless recognition of users' behavioral characteristics. By tracking touches, swipes, the angle of the phone during typing and viewing, key press levels, and other behavioral data, the system creates a profile for each user, forming the basis for future identity confirmation. The workings of bKYC incorporate artificial intelligence algorithms that continuously learn and adapt over time, expanding the recognition capabilities of behavioral characteristics.

This machine learning component allows the system to evolve and improve its recognition capabilities, ensuring high accuracy and minimizing the likelihood of false positives or negatives.

3.1. Integration into the Sqrow ecosystem

bKYC is closely linked to other projects within the Sqrow ecosystem, achieving an unparalleled level of security, trust, and user convenience. Its integration is crucial for creating a comprehensive, secure, and efficient structure.

Interaction between bKYC and other Sqrow projects:

- ★ **bKYC and Karma:** create a safer environment by linking a user's identity to their reputation rating. This integration strengthens trust and reliability in the Karma system, ensuring that verified users undergo authentication using behavioral biometric data.

★ **bKYC and Keep (Payond Cryo):** this integration enhances the security infrastructure by ensuring that user behavior models serve as their "key" to unlocking secure digital assets. It further increases the security of stored funds and assets.

★ **bKYC and Chain:** ensure that each blockchain transaction is initiated and verified by a legitimate user. It verifies users without disclosing their identities, contributing to the security and authenticity of blockchain transactions.

★ **bKYC and NRG:** create a secure and reliable environment for transactions related to responsible energy use. This helps prevent token misallocation to unreliable users attempting to compromise the system using multiple accounts.

The integrative nature of Sqrow bKYC opens the door to potential future integration with additional subsystems or new features within the ecosystem. This adaptability and scalability allow bKYC to continuously contribute to the security of the ecosystem and user convenience.

3.2. Spoofing and personal data theft prevention

By confirming identity through behavioral biometrics, Sqrow bKYC significantly reduces the risk of forgery and personal data theft.

Even if someone gains access to KYC data, the uniqueness of individuals' behavioral patterns prevents unauthorized access or impersonation, eliminating the risk of forgery and personal data theft.

This becomes a decisive factor in protecting users' identity and assets in the crypto sphere.

4. Behavioral authentication data used by Sqrow bKYC

1. Touches and swipes:

Sqrow bKYC analyzes unique patterns of touches and swipes performed by users on their devices. These actions are individual to each person and contribute to creating a behavioral profile for authentication.

2. Phone tilt angle (sensor data):

The angle at which a user holds their phone or specific sensor data related to the device's positioning is a crucial aspect of behavioral biometrics.

3. Keypress and typing dynamics:

The rhythm, speed, and unique pattern of keypresses while typing serve as valuable identifiers for behavioral authentication. The individual way users input data on their devices enhances the accuracy of behavioral biometrics analysis for identity identification.

4. Gesture and Movement Patterns:

Unique gestures and movements inherent to each individual while interacting with their devices become integral components of the behavioral authentication process.

Combining these behavioral indicators helps create a unique user profile, ensuring a multifaceted and accurate model of identity confirmation.

In addition to the mentioned data, Sqrow bKYC may include other behavioral indicators and patterns of user interactions with devices.

5. Applications of Sqrow bKYC

- ★ User authentication for access to digital wallets
- ★ Secure login and access to accounts
- ★ Identity confirmation in transactions
- ★ Authentication in Sqrow's decentralized applications (Sqrapps)
- ★ Storage of personal data in the crypto space
- ★ Simple authentication in everyday operations

6. Expected impact and future development

The implementation of Sqrow bKYC signifies a significant step in the broader adoption of behavioral biometrics. As this technology gains recognition, its impact may extend beyond the Sqrow ecosystem, potentially setting new industry standards for authentication and identity confirmation.

The use of behavioral biometrics has the potential to revolutionize authentication standards in various industries, including the financial sector and cybersecurity.

6.1. Impact of behavioral biometrics on cybersecurity and user data privacy

Behavioral biometrics, exemplified by Sqrow bKYC, serves as a reliable security measure against cyber threats.

It is expected that as this technology evolves, it will strengthen security protocols, offering more effective protection against personal data theft and unauthorized access.

The implementation of behavioral biometrics prioritizes user confidentiality and data protection. This technology allows identity confirmation without disclosing confidential personal data, aligning with the growing need to protect user privacy in an increasingly digital world.

With ongoing technological progress and the capabilities of machine learning, the accuracy and reliability of behavioral biometric systems are expected to continually improve.

It is essential to note that the adoption of behavioral biometrics and the replacement of conventional authentication processes will positively impact the quality and speed of service, as well as increase customer trust.

7. Conclusion

The integration of Sqrow bKYC into the Sqrow ecosystem marks a fundamental shift in user authentication by incorporating behavioral biometrics into its product offerings. This solution provides secure and user-centric identity verification.