

# Preoccupying the DID market with blockchain simple authentication services

## Raonsecure Co., Ltd.



replace the authentication technology used to authenticate most users using major personal information such as resident registration number and mobile phone number.

Domestic and foreign companies are researching related technologies to keep pace with the rapidly changing security trend. As a leading company in the domestic integrated ICT security industry, Raonsecure is distinguishing itself by proactively engaging in developing a security service platform without a certificate. Raonsecure developed pass authentication technology based on blockchain as well as a platform for the Military Manpower Administration by participating in the "blockchain public leading pilot project 2019" of the Korea Internet & Security Agency. To adapt to the market situation wherein the importance of a security platform is increasing daily, Raonsecure is preparing for the next-generation authentication service. The steps being taken by Raonsecure are drawing our attention, as it released the authentication system simplification service based on blockchain in the global market beyond Korea, and it is trying to preoccupy the market.

the integrated mobile security solutions such as mobile device management, password authentication, mobile vaccine, and virtual keypad. In 2015, Raonsecure released "TouchEN OnePass," the world's first FIDO (Fast Identity Online) biometric authentication service, and acquired FIDO global certification. As a result, Raonsecure was selected as a board member of the FIDO Alliance (international biometric authentication standard association) in 2017. The company is participating in decision making on various policies and solutions with existing board members such as Google, Amazon, PayPal, Alibaba, Microsoft, Visa, and Samsung Electronics. It also developed blockchain-based password authentication technology two years ago, as technical development based on blockchain is conducted in various fields and research on developing a simplified service for the system using a public certificate is actively conducted.

### Provided military manpower services based on blockchain

Raonsecure had prepared for a digital ID by developing password authentication technology based on blockchain while endlessly contemplating about the technology that can use blockchain technology in real life. While considering a blockchain pilot project in the public sector, Raonsecure participated in the project based on the judgment that the digital ID business model was similar to the business of the Military Manpower Administration. "It is true that a company should spend much energy when preparing for research funds to be invested in new technology development and securing references. We were able to solve this issue by joining the ICT funds project. In particular, it was most advantageous for us that we could demonstrate our technology by applying it to the public sector," said Lee Soon-hyung, CEO of Raonsecure. To provide the civil service of the Military Manpower Administration without a certificate according to the public certificate abolition schedule, Raonsecure started to develop a blockchain platform and applied a non-repudiation function to the blockchain-based DID authentication and civil service. Previously, the service applicant needed to visit the Community Service Center at least twice to obtain a certificate of military service when applying to receive national veterans' benefits for participating in the Korean



### Raonsecure: a company leading integrated ICT security

Founded in 1998, Raonsecure is a leading integrated ICT security company that provides security/authentication solutions and does business in the service field. It is doing business in the solution and service area -- such as mobile security, security service, security technology research and analysis, and education -- and maintains a stable growth trend by securing 500 institution and corporate customers in the finance and public sector and general companies. Raonsecure is the only company among domestic information security companies to have all of



**General Status**

**Project Name**  
Blockchain public leading pilot project 2019

**Name of Supporting Organization**  
Korea Internet & Security Agency

**Company Information**

**CEO**  
Lee Soon-hyung

**Type of Business**  
Security/Authentication solutions and services

**Date of Establishment**  
April 16, 1998

**Website**  
www.raoncorp.com

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Nowadays, security/authentication technology based on blockchain technology is drawing our attention. In particular, blockchain technology is actively studied to develop the simplified service of an authentication system that uses a public certificate. Since the DID (Decentralized Identity) authentication technology based on blockchain technology is a technology system that can play the role of authentication and perform "decentralized identity assertion," related services can be expanded at home and abroad if a standard is established. Global research institutes such as Zion and Fortune Business Insight forecast that the global DID certification market will to grow to KRW 24 trillion in 2025. Many global and domestic companies are already developing services using DID and VC (Verifiable Credential) technology. Currently, the technology is mature enough to



War and the Vietnam War. The Military Manpower Administration and Ministry of Patriots and Veterans Affairs processed military administration using official letters and offline documents. After implementing this project to realize paperless military administration, security and efficiency were strengthened in sharing the military service records of the Military Manpower Administration with other agencies, and the convenience of the service applicant and institution user was enhanced.

**User convenience proven by the use history**

A total of 50,000 services were requested, and 8,000 documents were issued within a month of the launch of the simplified blockchain authentication service by the Military Manpower Administration in January 2020. The number of service users is likely to increase continuously, considering the fact that the number of new users has increased significantly since the beginning of the service. The total number of potential users of the Military Manpower Administration civil service portal stands at 1.65 million. Based on the achievements of this project, Raonsecure gained more opportunities to sell to the public institution that has the need for DID-based login method and service application by issuing VC. Recognized for its experience in carrying out the Military Manpower Administration project, Raonsecure received an order for the "project of developing public service platform services based on DID" from Gyeongsangnam-do and "pilot project for "developing a reliable platform for blockchain-based self-driving cars" from Sejong City this

year. Raonsecure was able to accomplish these achievements based on the various technological know-how accumulated so far. "To gain good results, we could plan various services using DID because persons in charge in the institution actively participated in the project and provided ideas. We developed the blockchain identification platform "OmniOne" based on active business cooperation of related institutions and technological know-how we have accumulated so far as a solution company specializing in authentication and mobile security. We could also shorten the project schedule by applying OmniOne immediately. In addition, we have researched on DID and blockchain platform for the past two years. As a result, we prepared OmniOne well, and it was of great help to us," said CEO Lee.

**Establishing itself as a leading DID-based blockchain company**

Based on these results, the service is expected to be applied to various administrative fields that need a certificate of military service. Furthermore, multiple public

66 Beyond the mobile business, Raonsecure expects to establish itself as a leading DID-based blockchain company based on participation in this support project. It is currently preparing for next-generation authentication services using DID and VC technology, aiming to grow into a global company by standardizing blockchain-based technologies. 99

institutions may replace its login function using a public certificate with DID-based login. As a result, various technical inquiries are expected to be received, with business opportunities gained from financial and private companies besides public institutions, which in turn will have a positive impact on the increase in sales. Beyond the mobile business, Raonsecure expects to establish itself as a leading DID-based blockchain company based on participation in this support project. It is currently preparing for next-generation authentication services using DID and VC technology, aiming to grow into a global company by standardizing blockchain-based technologies. "We plan to promote global standardization following domestic DID standardization by creating reliable references through public sector demonstration projects invested in by the government. We will collaborate with service providers and alliances at home and abroad at every level in order to enhance the position of K-DID, like K-quarantine," said CEO Lee.

**Key achievements**

- May 2020 - Received an order for the "project of developing public service platform services based on DID" from Gyeongsangnam-do
- May 2020 - Received an order for the "pilot project for developing a reliable platform for blockchain-based self-driving cars" from Sejong City
- January 2020 - Launched the simplified blockchain authentication service for the Military Manpower Administration based on the blockchain identification platform "OmniOne"
- June 2019 - "DID platform," a new non face-to-face identification, was selected as an innovative financial service by the Financial Services Commission (The DID platform was developed by Raonsecure)

**Mini Interview**

**Lee Soon-hyung**  
CEO



**What did you achieve by participating in the project?**

"Our biggest achievement is that we helped users in resolving their inconveniences by developing a blockchain platform that can provide the civil service of the Military Manpower Administration without a certificate. From our standpoint, we gained more opportunities to provide our services to the public institution that has a need for DID-based login method and service application by issuing VC."

**What are your plans for the future?**

"Currently, we are preparing for next-generation authentication services using DID and VC technology as well as an expansion project that replaces the paper certificate of military service used in various fields. Raonsecure will collaborate with service providers and alliances at home and abroad at every level, in order to enhance the position of K-DID."

