KOREA SECURITY BRIEFING

THE 5 MAIN CONCEPTS OF
KOREA'S ACCESS SECURITY MARKET IN 2021

The year 2020 has been dominated by the pandemic which imposed great impact on our politics, culture, society as well as the economy. Untact technology and solutions such as facial recognition and mobile access cards have emerged rapidly as untact services made its presence in the domestic physical security market. A new market was formed as the neologism 'Infection Prevention Security Solution' unveiled itself.
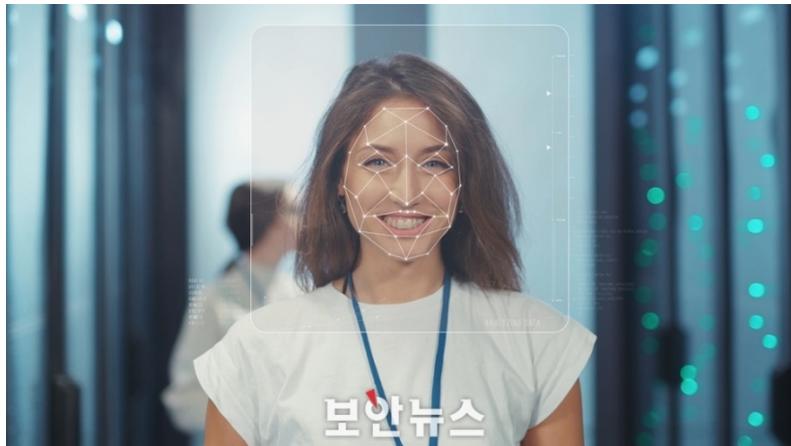

▲Photo [Suprema]

THE PROLIFERATION OF UNTACT SECURITY SOLUTIONS

Most of us cannot deny the fact that Untact solutions are to take lead in the post COVID-19 era. This not only applies to security of course. Fingerprint

authentication solutions are soon to be replaced with untact facial recognition programs.

▲Photo [Suprema]

Such untact access control systems are not only beneficial to the preventive measures, but also in managing the system without physical space and time constraints, increasing work efficiency. Untact solutions are developing on the same line as Fourth Industrial Revolution, and the spread of smart phones, blockchain technology, and DID (Decentralized Identity) based mobile identification cards, accelerate the supply of mobile access cards. Facial recognition, together with the advancement of AI technology, is foreseen to become the driving force of biometrics.

Infection Prevention and Security Integrated Solutions

As the use of thermal imaging cameras enabled the precise, fast and inexpensive fever screening, such trend infiltrated into many multi-use facilities, in which drive-through testing and mask supply management have become the center of infection prevention. Early detection of fever through facial recognition has only been confined to fever detection, however the system, incorporating facial recognition technology with fever detection and access control functions, is now being evolved into an integrated infection prevention access security solution, widely installed in larger workplaces and factories.

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2021 infection prevention security market will probably be led by large corporations or public institutions, as it is foreseen that solutions, not only access control, but visitor management, time & attendance management, and elevator control systems, are to evolve into a real-time video management infused infection prevention security surveillance system.

The popularization of mobile access cards

RF cards have now been replaced by mobile access cards, which provide efficiency and economic feasibility. Authentication speed and device compatibility was the hindrance which was pulling the spread of mobile access cards back. However, thanks to BLE and NFC communications technology, such hindrance was quickly removed. The sudden demand for mobile access cards lies in the fact that they are perfectly untact solutions.

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The commercialization of DID (Decentralized Identifier), blockchain based DLT (Distributed Ledger Technology), is the catalyst for the spread of mobile access cards. This is the due to the fact that the spread of mobile identification services causes the need for offline Single Sign-On centered around access security to rise.

Privacy Policy and System Security

Following the enforcement of EU's GDPR (General Data Protection Regulation) in 2018 and CCPA (California's Consumer Privacy Act) in 2020, the enforcement on privacy policies are is occurring worldwide. The same applies to Korea. In 2020, the National Assembly passed the amendments to Korea's three main data privacy laws and this has increased the standard as well as the social demand for privacy policy.

In order to safely identify and encrypt an individual and their pseudonymization, it is essential that the application of encryption techniques such as AES256 and 3DES should be used with biometrics such as the face and fingerprint, password, and personal information combined. The new security trend of applying security chips (Secure element) and generalizing security technologies such as TLS1.2 and HTTPS to prevent the hacking of devices and card readers, is happening all around the world. The rising social demand for protecting personal information and security solutions for access control are to become the new norm.

Cloud-based ACaaS (Access Control as a Service)

2020 was a year full of cloud-based untact solutions such as video conferencing and working from home. The South Korean government's release of the digital development plan is a strong will for fostering untact industries, and the untact service voucher support project which has started last October, is the clear evidence of it.

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One of the services which had not been recognized is the cloud-based access security service - ACaaS (Access Control as a Service), which was already released in 2017 by carriers and IT companies such as SKT and LG CNS. However, things look different now. A change in the domestic access security market is about to happen, as many are targeting SMB clients by incorporating collaboration solutions such as video conference and working from home with ACaaS services. A new change is about to happen.

Find more about the access security market at **SECON 2021**! The event is to be held from **12ᵗʰ to 14ᵗʰ May 2021**. Hosted in Korea, a country where its security market is the 2nd largest in Asia and 7th largest in the world, SECON 2021 has marked its position as Korea's largest integrated security exhibition covering all sectors of the security industry. Visit the **EXHIBITOR DIGITAL SHOWROOM** (https://exhibitors.informamarkets-info.com/event/2021SEC) which showcases products and profiles of all exhibitors.

For more information on Korea's Security Market and SECON 2021, please contact Mr. James Lee / Tel.: +82 2 6715 5406 / JamesHJ.Lee@informa.com