



ANY and ID&Trust's VirusPass system allows governments to issue vaccination, immunity and test certificates, while keeping sensitive medical data safe

# ImmunityPass solutions

secure vaccination  
certificates for governments

ANY Security Printing Company PLC 2021

ID&TRUST

ANY 

Security ANYtime and ANYwhere

IMMUNITY



PASSPORT



## ImmunityPass solution

secure vaccination certificates for governments by ANY and ID&Trust

**We propose a total authenticating system, ensuring the people the freedom of free movement, given the preconditions are set, while helping to keep the economy running.**

With regards to healthcare and economic distress, the coronavirus pandemic put both the population and the economy in a state of emergency. To maintain daily life's functioning and keep the economy going, both from the employer and employee's perspective, it is vital to know whether a natural person went through the disease, got immunity by vaccination, is not contagious to others, and, therefore, is able to safely return to civil and work-life, while not posing a danger to themselves or to the society.

### Everyday life without fear and restrictions



Usage of healthcare and other social services | public education | work | mass transportation | community spaces | shopping malls | retail units | tourism | public events (sports, culture, festivals) | hotels, restaurants, entertainment facilities | service providers (hairdressers, fitness) | travel

### The system

Physical and digital safety and authentication

**Widely accessible, up-to-date online storage of the test results, quarantine statuses, and vaccinations.**

These are facts, therefore, that a given person must be able to prove in line with government guarantees and can be expected of them through the designing of a complex infrastructure that is necessary for the safe handling, sharing, and checking of an individual's personal data.

With regards to the above – taking into account the steps, which are needed to be taken against infections and the WHO-supported response – it is advisable to introduce a new security document that proves, together with a personal identification document and the database behind it, that its

More than 170 years' experience and references

ISO 9001 | ISO 14001 | ISO 27001  
ISO 14298 | AQAP 2110 | MASTERCARD & VISA

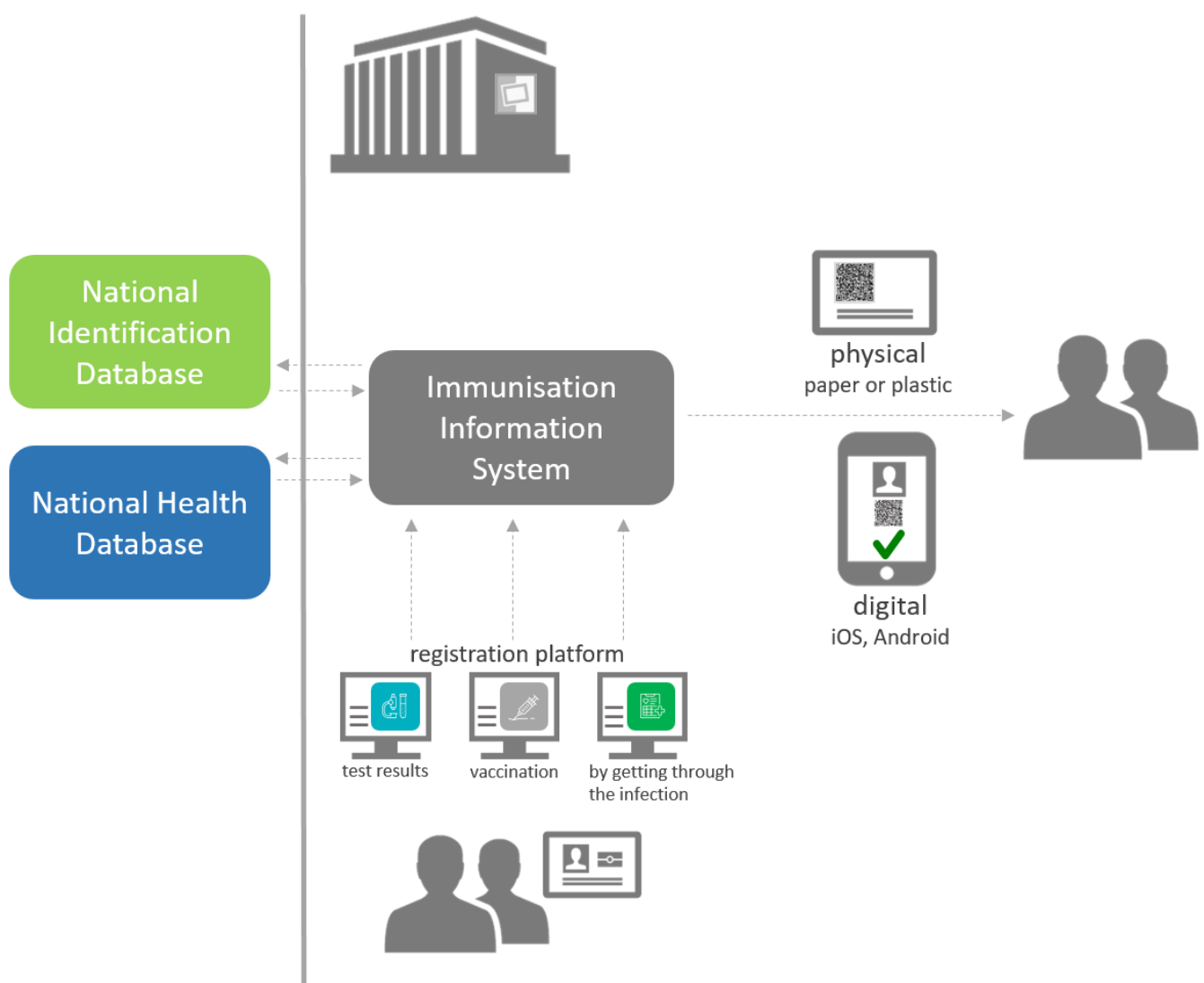




owner has already been through the coronavirus infection, or was vaccinated, and, therefore, does not pose a danger to the individuals making personal contact with them.

This document would not only serve public health purposes on the short term, so it would not only store data in connection with the Covid-19 pandemic, but in the future, it would contain proof of every vaccination administered to the affected person should another epidemiological situation arise, or for the sake of institutions for the control of contagious diseases of foreign countries where the affected person travels to.

A database for the pandemic would be created, where the authorized organizations carrying out the vaccinations and epidemiological examinations can place signals and information about the persons an individual has made contact with. The database would be created continuously, and the persons entered into the database would get the state issued immunity pass, which incorporates not only personal data, but a data drive equipped with outstanding document information security, and when scanned – from relatively far, contactless, without handing in the document, since it can be scanned via a mobile app or a QR reader - provides the necessary up-to-date information for the queryer. It is important that the document visualizes the relevant data, which is easily readable in multiple languages for international authorities and authorized personnel.



## Security document

We advise the ID-1 sized document, personalized by plastic-based (PVC) laser-engraving, equipped with a design full of special security imprints. However, the system is capable of being assigned to already existing, suitable documents, such as healthcare cards, and also the issuance of an adequate security level paper-based document is a viable solution. Whatever the choice may be, it can be connected with the already existing personalizing system. As needed, we deliver a card equipped with code/pre-perso, to which the data can be assigned locally. Therefore, there is an opportunity for local distribution of cards in the vaccination centres, and not only for central issuance.

## Immunisation Information System (IIS)

The database can be operated as a standalone system or it can be integrated to the existing national healthcare database.

It includes:

- Test information in time series
- Quarantine and release from it
- Vaccine, and the time frame and validity of immunity
- Personal data

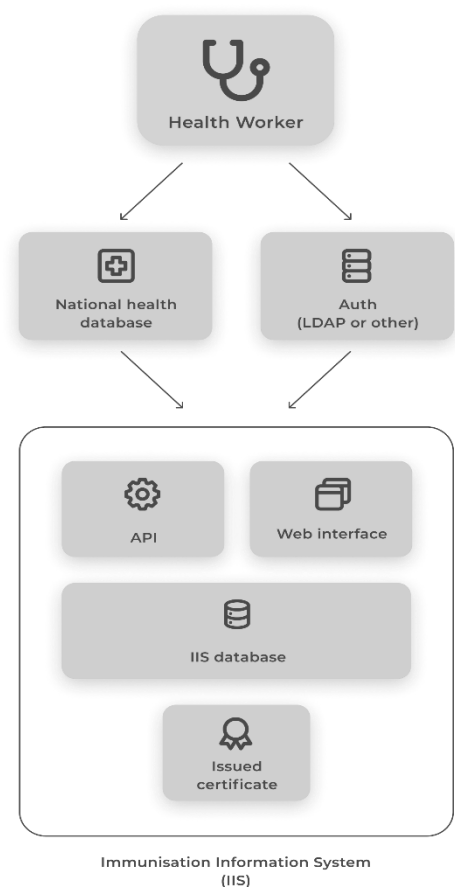
VirusPass' Immunisation Information System (IIS) can be used to record the minimum dataset for vaccination certificates. Vaccination certificate events are either recorded in the system by health workers through a web interface or, alternatively, data can be imported into the IIS from national health databases via API.

## VirusPass

ID&Trust's ready-to-use digital certificate management solution covers the entire lifecycle of certificates, from issuance through distribution to authenticity and validity checks. Vaccine certificates can be used together with a valid ID document and they can be distributed and verified within a fully-fledged mobile app.

Card data includes:

- No personal data
- Document number for identification
- Verifying certificate - machine readable code



If needed, we provide individual elements of the system and their implementation.



As part of preventive efforts against the coronavirus pandemic, it is of critical importance that people are able to show verifiable coronavirus vaccination certificates during government-ordered checks.

VirusPass offers a secure and scalable solution to this challenge. It enables governments to easily issue and distribute vaccination certificates and check their date and authenticity without any physical contact.

### Widely accessible up-to-date data – data access according to authorization level



- For non-registered users, the multi-language health-risk classification can be queried
- For registered users, multi-language information is available (e.g. valid vaccinations and the expiry date of them, valid tests and their date, restrictions)

Ensuring data access according to authorization level.

### Verifying certificate

#### Creating certificates

Using the data recorded in IIS, VirusPass helps issue, store, and distribute physical and digital certificates. The minimum data-set - regarding vaccination, personal, and expiration data - of the vaccination certificates follows the international recommendations. Each vaccination certificate is either bound to a dedicated ID document or to its holder via basic personal data (name, birthdate, birthplace). Physical certificates with personalized data content can be sent to printing companies that produce the storage medium. Digital certificates can be issued and stored securely in the GoodID mobile app.

#### Checking certificates

Besides visually readable information, verifiers can access additional data by reading the certificates' QR code and NFC tag with GoodID. Certificates are easy to interpret, and their authenticity can be checked in just a few taps, along with their validity and if they really belong to the person who shows them. Verification can be done anonymously by anyone (companies, public institutions, authorities, schools, restaurants, private individuals etc.) via GoodID or any third-party app where GoodID SDK is integrated.

More than 170 years' experience and references



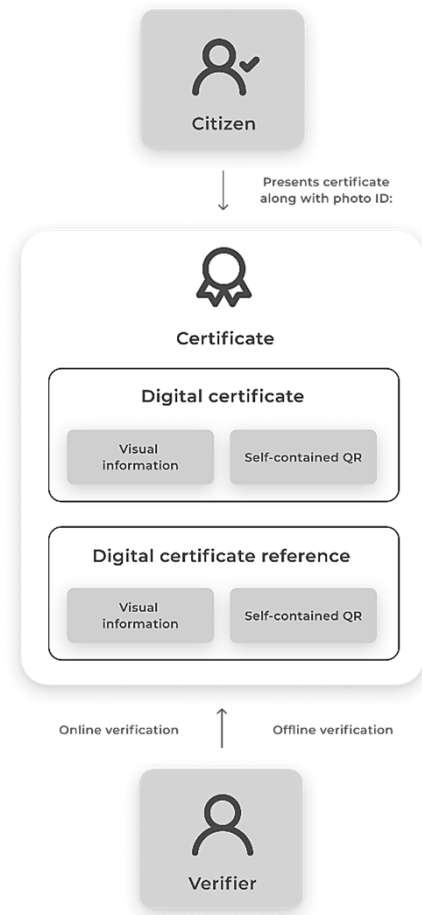
## What is GoodID?

GoodID, ID&Trust's digital identity wallet solution, is a full-fledged mobile app available for Android and iOS smartphones. It can be used to securely store and verify the digital copies of identity documents as well as certificates. The app allows users to present their certificates and ID documents at the same time.

Users' data is stored in a hardware-based, encrypted data safe called SecureBox and can only be accessed with the phone owner's approval. Thanks to the Crypto-QR technology, certificates are copy- and forgery-proof. The electronic signature on the certificates is regenerated each time they are opened, using a special crypto algorithm.

GoodID is available as a white-label app with tailored interface and functionality.

In possession of the above immunity pass, the natural person does not pose a risk to the community of their residence, workplace, and could travel abroad for work, even to areas with high infections without risking their own or others' health.



## Why choose ImmunityPass solution?

- Ready-to-use solution that covers the entire lifecycle of vaccine certificates and includes ID&Trust's white-label mobile app.
- Digital certificates can be issued to the app, where data is kept securely in the hardware-based, encrypted SecureBox.
- ID&Trust's Crypto-QR technology guarantees that the certificates are copy- and forgery-proof.
- GoodID identity wallet is audited as per the requirements of the Hungarian National Bank and suitable for secure certificate distribution and verification.
- Vaccine certificates and identity documents can be stored on the same device for faster and smoother verification.
- Certificates can also be integrated with eID documents or electronic health cards.
- Verification does not require an internet connection.
- Easily adaptable to WHO, ICAO and EU guidelines and standards.



The benefits of the presented system:

### **Healthcare:**

- Validated central data assigned to the individuals
- Supports vaccination planning
- The duration and area of the authority measures can be shortened

### **Societal, political**

- Provision of COVID free community spaces
- Supports the return to a normal lifestyle
- Easily manageable, secure, and available for everybody
- Free service – positive appreciation and political support
- Well communicable, easy-to-understand services
- Spectacular and efficient tool for the areas most affected by the virus, such as tourism, hospitality, sport, and culture.
- An as soon as possible return to normal substantially enhances economic performance

### **Technological**

- Low implementation costs
- Connection to existing databases
- Highly secure card and backend IT system
- Quick implementation

**We offer flexible solutions for every single element of the whole system, adapting to local specificities, legal and healthcare environment. Get in touch with our colleague and let us work out the ideal solution for you!**

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# Introduction

## ANY Security Printing Company

ANY Security Printing Company PLC (former State Printing Company) was founded in 1851. The Company currently is the biggest security printing company and identity solution provider in Hungary and a leading one in the Central Eastern European region, having several references from developing countries in the African continent. Head office is located in Budapest, Hungary. With more than 1000 employees in 5 countries at 9 premises, our goal is to make people's everyday lives more secure and more comfortable. The Company's shares have been listed on the Budapest Stock Exchange in the premium category since 2005. It has been present in the foreign market since 2005, the export activity is constantly growing, and the sales revenue of the company has increased more than ten times in the recent period. Reaching a historic record in 2019, we were able to register net sales of over EUR 100 million. We do not only produce documents, we also provide secure personal identification, innovative product identification and data logistics in large volumes.

As a result of ANY's export activities, the products are well known in more than 50 countries and they are used and applied in all continents of the world. Its successful expansion is thanks to international qualifications, more than 170-years of experience in the field of production, outstanding references and its own Document Security Laboratory.



## ID&Trust

ID&Trust is a global expert in digital identity technologies. Founded in 2002, ID&Trust has worked on pioneering projects, both local and international, for private and public organizations: the company has developed an electronic passport solution in Japan, health cards in Romania and a multifunctional card solution for eIDAS-compliant, new-generation electronic ID cards in Hungary.

ID&Trust meets the strictest, military-level security standards (Common Criteria). Meaning that its head office and security processes have been audited by independent laboratories and accreditation organizations as per the Minimum Site Security Requirements used by SOG-IS and the Common Criteria community.

