

# Medical Pass Blockchain module



**Medical Pass (MP)** – medical system created for **Users** and designed for secure storage of personal medical data, laboratory results and any other information obtained from various sources (clinics, laboratories, diagnostic centers, etc.).

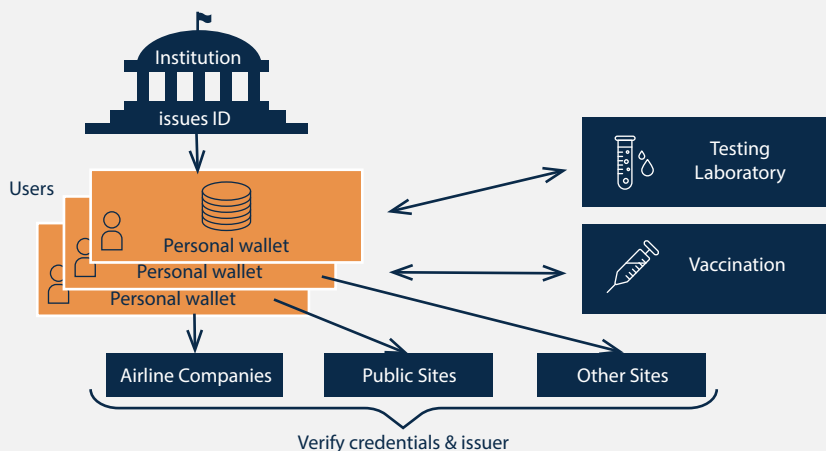
Certain medical documents contain important information that is used for legal purposes. These include laboratory results for certain viruses (HIV, hepatitis, COVID-19), confirmation for vaccines (Malaria, Ebola) and reports on diseases (heart diseases, diabetes, etc.).

This legally important medical information should be uploaded to the system by medical institutions as blockchain verifiable information, proving to the authorities the source of information and preventing any tampering of the content.

Blockchain verified data will be displayed in a special section of the **MP** app or Bracelet, with an option of quick view for checking out by authorities.

## How it works – COVID status example:

Institution issues unique personal ID for **Users**, which is stored in their personal wallet. **Users** may take test for COVID-19 / presence of antibodies in Laboratories in order to get vaccinated later. Prior testing/vaccination procedure the **User** should provide unique ID to Lab/Vaccination point. After the procedure, Lab/Vaccination point will issue the confirming transaction that **User** may accept and store in the wallet as well. Thus, when the **User** leaves the country, visits public or any other places where it is necessary to present current verifiable information about the COVID-19 status, it is always available to him and all institutions.

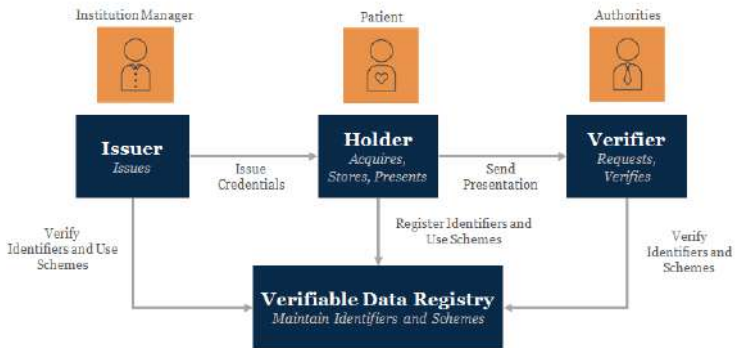


## Technologies behind the module

### Blockchain credential roles

Given the roles and responsibilities outlined in the Blockchain Credentials specification, **MP User** story can be described using the following concept:

Role	Description	Examples
Holder	An entity that is in control of one or more verifiable credentials	Holder can be a person, or a connected device. <b>MP User</b> is a Holder
Issuer	An Institution that creates a verifiable credential, associates it with a particular subject, and transmits it to a Holder	Issuers include governments, medical Institutions, Doctors.
Verifier	An entity that receives one or more verifiable credentials (specified by a proof request) for processing	Verifiers include Border Control, Airlines and Hospitals
Identifier Registry	Mediates the creation and verification of subject identifiers	Identifier registries include Government and Private Health Insurers, and is connected to many other registers and nodes.



All the Blockchain verifiable information is sent peer-to-peer and only the Institution and the **User** can see them and show them to a third party, thus keeping the records completely compatible with GDPR guidelines.

The Institutions that deliver the result have a unique Digital ID that is maintained by the authorities, and they can issue verifiable information to unique personal wallets of **Users**.

