Community Pass Health

JUNE 2021

Enabling the digitisation of health data through a modular offering to drive patient adherence, improve clinic efficiencies and increase data accessibility for all parties.

Global public health will require unprecedented effort to deliver and record the COVID-19 vaccine treatment – and beyond. Today, decision makers in developing markets do not have access to timely, interoperable data required to operationalise a pandemic vaccination response. Service providers in the health sector operating alone struggle to ensure data interoperability and robust verification and tracking of patients across multiple touchpoints.

In many developing countries, patient health data is still collected, recorded and stored in paper-based systems. This can cause:

1 billion
people globally lack access to basic healthcare[1]

3 million
People die from vaccine preventable diseases[2]

 Fragmented and siloed medical records

 Limited patient verification

 Lack of accessibility and portability offline

 Inability to aggregate and report data efficiently
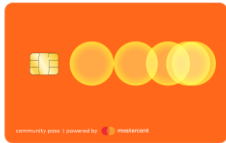
 Wellness Pass is a digital solution that addresses the needs of many stakeholders to accurately and electronically record health interventions to solve data related challenges in low- and lower middle–income countries, all with the goal of improving healthcare.

Enabling health records to be digitised and stored on a secure, portable chip which can be used offline. Biometric verification of patients increases robustness of data and quality of care.

Ministries of health
Provides a portable, device-level interoperability, improved tracking, near real-time visibility and digitisation of vaccine usage and stock, to help improve the success of immunisation campaigns.

Health tech providers and implementation partners
Biometrically verified data provides greater implementation success and access to data that conforms to programme standards and can be read by authorised EMR applications.

Clinics
Supports healthcare workers with tracking patient care, with the ability to work offline. Biometric verification results in more accurate data, supports treatment adherence and saves time on operational or administrative tasks.

Patients
Uniformity and digitisation support patient health, their diagnosis and vaccination records – regardless of where they've received treatment. Automated reminders notify patients of needed care, while biometrics ensure accurate delivery of treatment and vaccines.

Community Pass Health is composed of four stackable modules:

Wellness Pass
Secure portability using chip and biometric identity tokens enables EMR solutions to leverage capabilities as they relate to healthcare needs. A trusted and secure location for storing a patient's health credentials that make it offline, portable and interoperable.

Wellness Pass EMR
Guided by the HL7 FHIR standards, this compliant EMR service can work in concert with other Community Pass Health modules. Enables the creation and recording of multiple care plans for patient profiles in a flexible fashion to address a broad range of healthcare challenges.
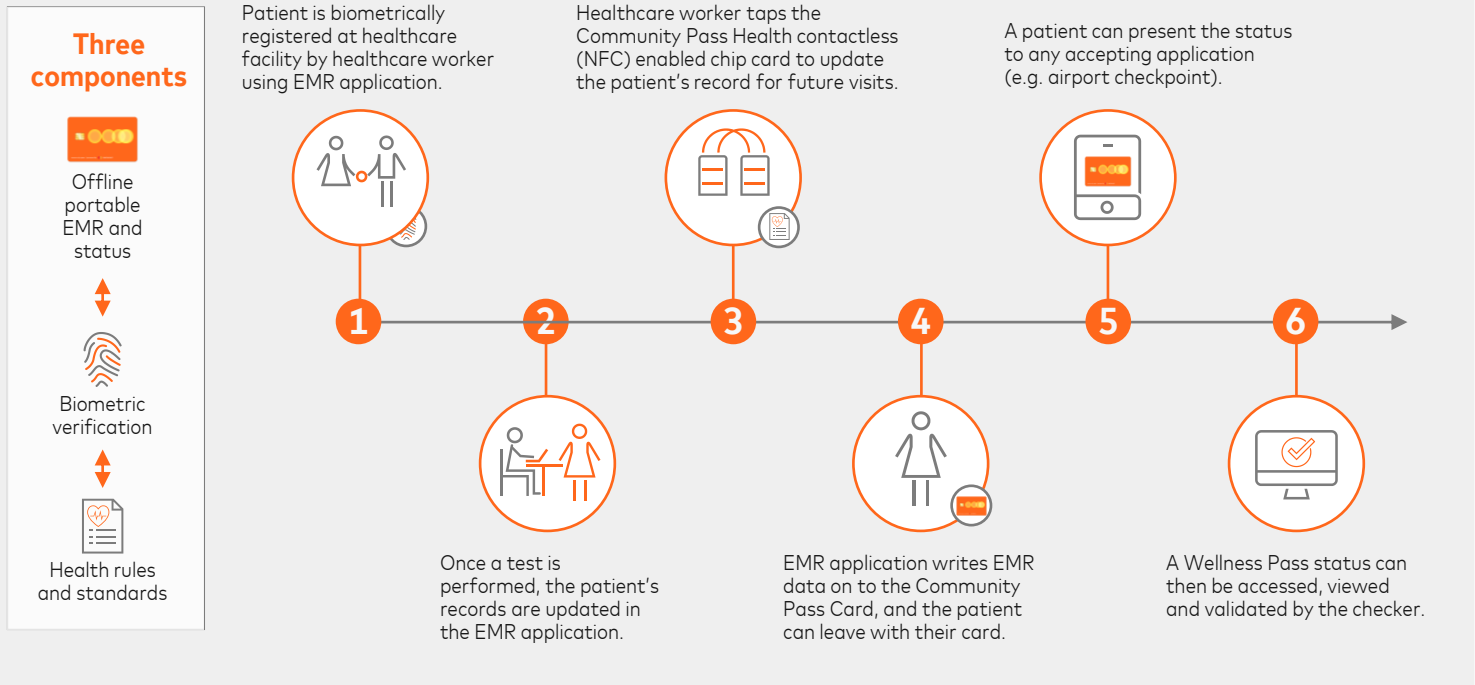
Validation library
Secure health data validation rules and standards enforce uniform standards and enable storage of health data for citizens. Works with the Wellness Pass to ensure that any authorised health application participating in the programme can access patient data once they biometrically verify their identity.

Health data switching
An interoperability service that facilitates the data exchange between different EMR solutions while enforcing rules and standards for data exchange. By providing data processing capabilities with no storage, interoperability standards are achieved in a secure and private way.

This is an example of the Wellness Pass workflow when being used by a third-party EMR application provider to record COVID-19 vaccine records as well as a COVID-19 health status.

Three components

Offline portable EMR and status

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Biometric verification

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Health rules and standards

1. Patient is biometrically registered at healthcare facility by healthcare worker using EMR application.

2. Once a test is performed, the patient's records are updated in the EMR application.

3. Healthcare worker taps the Community Pass Health contactless (NFC) enabled chip card to update the patient's record for future visits.

4. EMR application writes EMR data on to the Community Pass Card, and the patient can leave with their card.

5. A patient can present the status to any accepting application (e.g. airport checkpoint).

6. A Wellness Pass status can then be accessed, viewed and validated by the checker.

Community Pass Health is a component of Mastercard's Community Pass portfolio. Community Pass leverages a shared, interoperable digital infrastructure that facilitates life transactions for marginalised individuals and communities. The platform leverages core capabilities that enable digital transactions – including a functional identity, a shared wallet, a digital acceptance device and a safe and secure data platform. Our solutions are designed to operate in the remote communities that we serve – often with limited connectivity and energy access – and to be interoperable with third-party solutions to create open ecosystems. For our customers – the service providers that work with these communities – Community Pass increases access, reduces the cost-of-service delivery and improves the quality and effectiveness of their programming. We serve a variety of sectors, including agriculture, healthcare, education, micro-commerce and humanitarian aid.

Community Pass Health can help optimise the resources, wellbeing and economies of developing communities around the world. **For more information, please contact your Mastercard representative.**

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