The 72nd Transport Policy Seminar

Current Status of Digital Health Certificates; CommonPass, etc.

Takanori FUJITA

2021.06.25

Project Lead, World Economic Forum Centre for the Fourth Industrial Revolution Japan /
Project Associate Professor, Keio University School of Medicine

Self Introduction

2006 Graduated from the University of Tokyo, School of Medicine
2008 The University of Tokyo, Graduate School of Law and Politics, Department of Legal Training and Research (Completed 2011)
2011 Project Researcher, Keio University School of Medicine (2012-) Project Assistant Professor, Keio University School of Medicine
2015 Associate Professor, CBM Endowed Chair for Healthcare Innovation (AICA Industry), Graduate School of Economics, Nagoya University; Visiting Associate Professor, Center for Systems Medicine and Research, Keio University
2017 Project Researcher, Center for Global Health Policy Research, National Center for Global Health and Medicine
2018 Current position (Head of C4IRJ Project, World Economic Forum; Specially Appointed Associate Professor, Keio University School of Medicine)

Member, Expert Review Group on Contact Confirmation Application, Cabinet Secretariat
Member of Trusted Web Promotion Council, Digital Market Competition Headquarters, Cabinet Secretariat, etc.

World Economic Forum Centre for the Fourth Industrial Revolution Japan

Founder :

WORLD ECONOMIC FORUM

API Initiative
Asia Pacific Initiative

経済産業省
Ministry of Economy, Trade and Industry

Objective: To promote open innovation in policy, close governance gaps, and ensure policy compatibility in order to maximize the benefits of the Fourth Industrial Revolution

Partner Companies :

- Aisin Seiki
- NEC (Nippon Electric Company)
- Suntory Holdings Limited
- Salesforce.com SOMPO Holdings
- Takeda Pharmaceutical Company Limited
- Denso Corporation
- Toyota Motor Corporation
- Hitachi, Ltd.
- McKinsey & Company
- Mitsubishi Chemical Holdings Corporation
- Mori Building
- HORIBA Ltd.
- Eisai
- Nippon Telegraph and Telephone Corporation (NTT)

Companies participating in the project :

- Mitsubishi UFJ Research and Consulting Co.
- Deloitte Tohmatsu Consulting Co.
- Baker & McKenzie
- Visa Worldwide Japan

The Commons Project

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How can we produce internationally credible test results and certificates of vaccination?

(Data as a public good in the world)

A system where an individual holds data as a PHR and provides information in a person-centered manner

To resume cross-border movement of people and economic activities

- Until the COVID-19 vaccine is widely available, it is important to **digitize border control and health status and behavior monitoring.**
- Infrastructure essential for hosting international large-scale events such as the Olympics
- The following tools are effective in promoting the acceptance of large numbers of people from overseas while taking thorough measures to combat domestic infection

tool	Contact confirmation and grasp by QR code	Proof of health status (digital transit pass)	Activity plans and reports
Features	• With the spread of apps, we can see if they were in intense contact. • QR codes can be used to identify individual offices.	• Proof of PCR test results, vaccination status, behavioral history, body temperature and other symptoms • Can be used to prove the results of acceptance tests at the airport.	• Active and accurate reporting of actions • Activities can be limited to those travelers authorized by the activity plan (no need for **isolation**) • Efficient response to the outbreak of positive cases
situation	Contact verification apps and Start using QR codes	International collaboration through the "CommonPass" initiative	Discussions begin at WEF to resume international events and activities
Issue	• App penetration rate • The QR code system differs from prefecture to prefecture.	• The danger of Japan **missing out on international standards** • Need to have individual dialogues with other countries planning to reopen their borders	• Social consensus and legislative response to the use of location information • Promotion of digitalization of medical care for efficient response to the outbreak of positive cases

The New York Times

Big Business in Bangladesh: Selling Fake Coronavirus Certificates

A hospital owner was arrested trying to flee in disguise after selling certificates saying that migrant workers were coronavirus-free. Most were never tested.

Lining up outside of a coronavirus testing center in Dhaka, Bangladesh, this month. Mohammad Ponir Hossain/Reuters

Paper-based inspections are prone to the problem of false certificates.

https://www.nytimes.com/2020/07/16/world/asia/coronavirus-bangladesh-italy-certificates.html

Last year's "Framework Policy" (July 17, 2020)

implement prompt reviews by prioritizing these programs as emergency measures, and swiftly put together a domestic production system, in addition to securing the necessary volumes of vaccines and medications and designing a program for administering vaccines.

The government will ascertain the situation of Japanese nationals who live abroad and strengthen our efforts to protect them. With respect to cross border travel, the government will comprehensively take the general state of the pandemic in Japan and abroad, the government will gradually open international travel that is essential to business as far as it does not impede the effort to prevent the spread of the disease. The government will engage in coordinated discussions with other countries and regions while maintaining border control measures to prevent any transmission or import of the novel COVID-19 from overseas. The government will also examine the scope for allowing the reentry of foreign residents who had temporarily returned to their countries.

To that end, turning our sights toward a wholesale reopening of international travel, the government will partner with international efforts toward digitization and bringing about a seamless society as regards certifications of PCR testing and the like, health reports, and procedures required for entering and leaving Japan.

"Basic Policy on Economic and Fiscal Management and Reform 2020"
https://www5.cao.go.jp/keizai-shimon/kaigi/cabinet/2020/2020_basicpolicies_en.pdf , p.16

Keidanren "calls for early use of vaccination records (vaccine passport)"

Proposal released on June 24, 2021

Roadmap for utilization at entry/exit and domestically, depending on vaccination coverage

For more information
http://www.keidanren.or.jp/policy/2021/058.html

オフィシャルな英訳は存在しないので運輸総合研究所で仮訳
There is no official English translation, so a provisional translation was made by the JTTRI.

Basic Concept

Keidanren Policy & Action

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Utilization at the time of entry and exit

■[Outline]By presenting vaccination records at the time of entry and exit, quarantine procedures can be expedited, quarantine can be waived, and quarantine periods can be relaxed.
■[Schedule] In order to normalize international human traffic as soon as possible, immediate consideration should be given from now on, and the use of the system should be promoted from the earliest possible time.

Utilization in Japan

■[Outline]Methods of utilization, such as easing requirements for admission and providing various services and campaigns upon presentation of vaccination records.
■[Schedule] For the early recovery of socioeconomic activities, early preparations should be made, and utilization should be promoted from the stage when vaccination progresses.

Issues to be addressed

(1) Launching an exit strategy for the normalization of socioeconomic activities
➢ Develop an exit strategy for the normalization of socioeconomic activities by looking back at the current situation with the goal of acquiring herd immunity as a starting point.
(2) Promotion of digitization
➢ Promptly establish a system that allows people to utilize their own vaccination records based on their own judgment.
(3) Confirmation and further study of rational consideration in utilization
➢ Give reasonable consideration so as not to lead to disadvantageous treatment of non-vaccinated persons.

From the summary document “Call for Early Use of Vaccination Records (Vaccine Passport)”

Glossary of Terms

- The Commons Project (TCP) is a non-profit organization founded with the support of the Rockefeller Foundation, headquartered in Switzerland and active in the United States and other countries.
- CommonHealth: A health information management application for Android developed by TCP.
- CommonPass: A digital certificate application developed by TCP.
- Common Trust Network: an international framework promoted by TCP and the World Economic Forum.

The Commons Project

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TCP Japan Committee
Representative:
Hiroaki Miyata (Professor, Keio University School of Medicine, TCP Global Councilor)

Committee members (Board members)
Takao Omagari (Director, Center for International Infectious Diseases, National Center for Global Health and Medicine)
James Masaaki Kondo (President, International House of Japan; Councilor, TCP Global)
Akihisa Shiozaki (Partner, Nagashima Ohno & Tsunematsu)
Haruyuki Seki (President, Code for Japan Incorporated Association)
Naoki Hosoda (Chief Producer, Social & Cultural Affairs, Production Unit 2, Japan Broadcasting Corporation)
Ryoji Mori (Partner, Eichi Law Office)
Teruko Wada (Director, International Business Division, Nippon Keidanren)

Advisors
Takeshi Niinami (President and Representative Director, Suntory Holdings Limited)
Yoichi Funabashi (President, Asia Pacific Initiative)
Jun Murai (Professor Emeritus, Keio University)

World Economic Forum Centre for the Fourth Industrial Revolution Japan(C4IRJ)
Primary Responsibilities
Takanori Fujita (Project Lead)

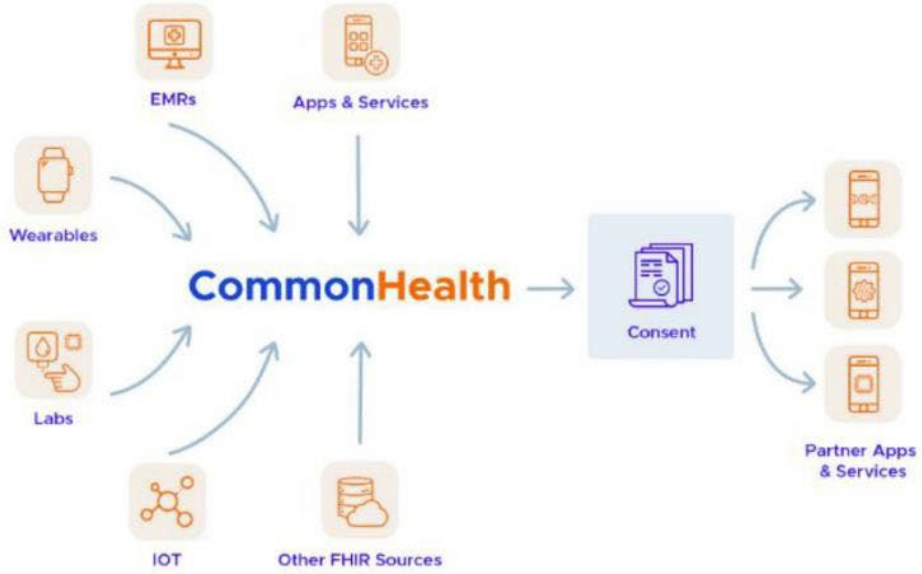
Cooperating organizations

Keizai Doyukai (Japan Association of Corporate Executives)
American Chamber of Commerce in Japan
New Economy Alliance, Inc.
All Nippon Airways Co.
Fixed-term Aviation Association
Japan Federation of IT Organizations
The Japan Society for Medical Informatics
Japan Tourism Promotion Association
Nippon Keidanren (Japan Business Federation)
Japan Airlines Co.
The Japan Chamber of Commerce and Industry
Japan Association of Travel Agents
The Japanese Society for Clinical Laboratory Medicine

CommonHealth

Apple Health

CommonHealth (Android) and Apple Health (iOS) let people collect, manage and share their health information with the partners they trust.



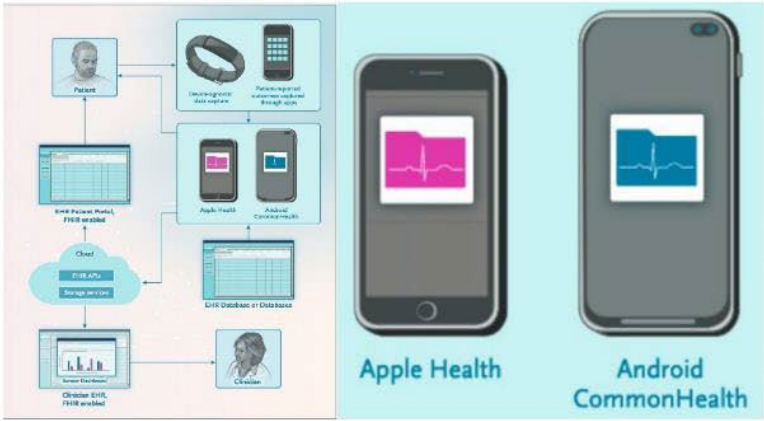
The NEW ENGLAND JOURNAL of MEDICINE

REVIEW ARTICLE

FRONTIERS IN MEDICINE

Mobile Devices and Health

Ida Sim, M.D., Ph.D.



CommonPass framework

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Digitally store test results and vaccination records with passport numbers (HL7 FHIR standard)

People will be tested and vaccinated.

Registration database of institutions licensed for testing and vaccination

test results
Vaccination records

Registered Implementing Agency

Information ID for tests and vaccines

Medical Information (Test results, etc.)

Apple Health

CommonHealth

Entry and exit standards for each country

Common Pass Verify that the following items meet the criteria

Indicates whether the standard has been met. (Protect your personal medical information)

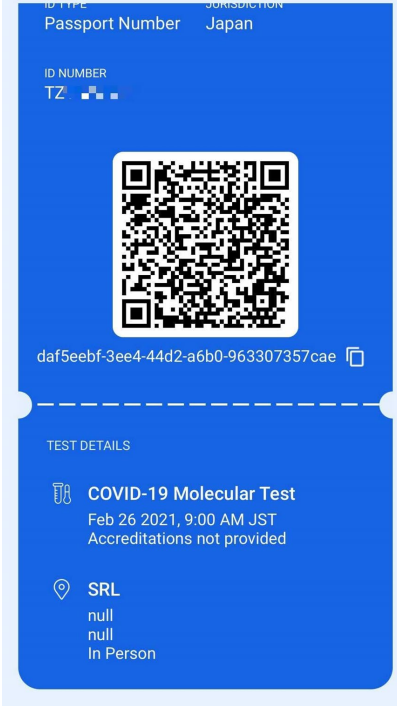
Common Pass framework adopted the Apps and services

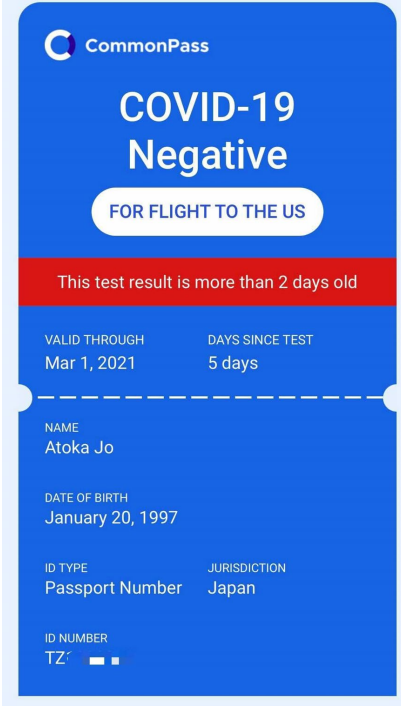
Safe border traffic

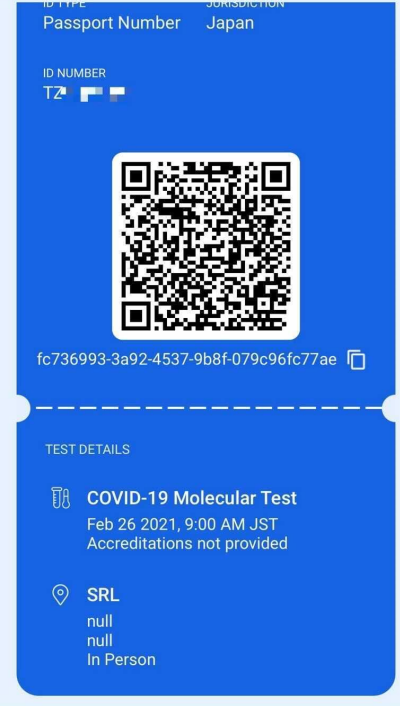
About the CommonPass App

- The CommonPass application prioritizes the management of users' personal information.
- Through the application, the user will be provided with relevant itinerary details and shown relevant travel/entry health requirements. A later version to be developed in the future will be able to identify appropriate testing locations in real time.
- The CommonPass application stores passes at the user's discretion and presents them directly from the app. Users have complete control over their personal health information and passes stored on their devices.

Negative COVID-19 Pass Example







Features of CommonPass

・Designed to support a wide range of transportation modes and purposes. Demonstration with partners other than airlines is also planned.
(Ships, trains, hotels, concerts, stadiums, companies, schools, etc.)

・Designed to be used with compatible digital wallet apps
(Apple Health, CommonHealth, GooglePay, CLEAR, etc.)

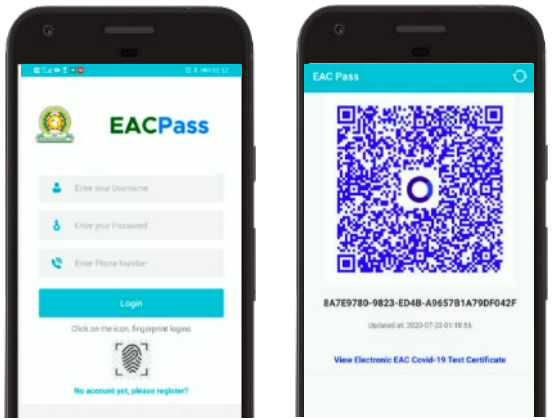
・Compliant with international standards such as HL7 SMART on FHIR and SMART Health Cards for high interoperability
(The certificate uses the W3C Verifiable Credential (VC) standard.)

East Africa Community

Pilot implementation using the CommonPass Framework (last August)

EACPass

Share the registration database of licensed institutions (testing and vaccination) in the region

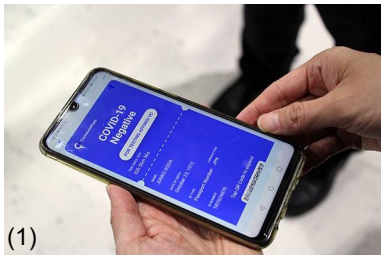


Utilization at the border of each country

Singapore: First demonstration experiment of digitally completed entry and exit verification

In the demonstration on JAL flight 711 from Narita to Singapore on April 5, the results of CommonPass reading by Unifier (QR code scanner/application) developed by Affinidi (※) of Singapore were confirmed at Narita Airport and Changi Airport.
This has demonstrated that the presentation of PCR test results at the time of entry and exit can be completed digitally.

When leaving Japan (Narita Airport)



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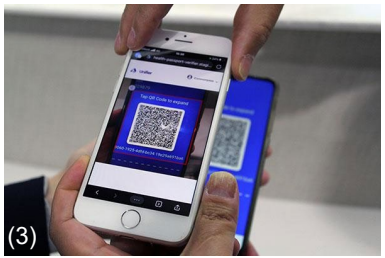
(2)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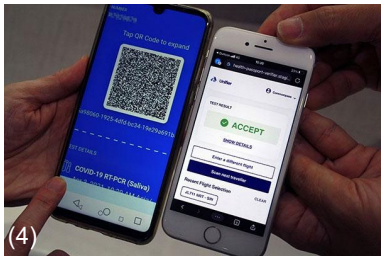
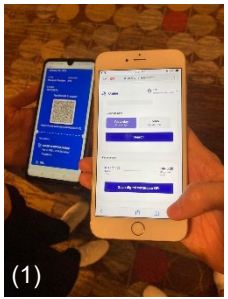


(4)

Confirmation screen when leaving the country. Common pass (left) and Unifier screen (right).

Upon entry (Singapore Changi Airport)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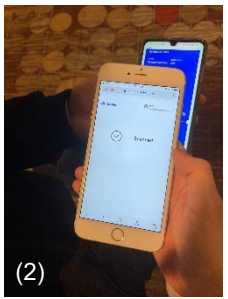
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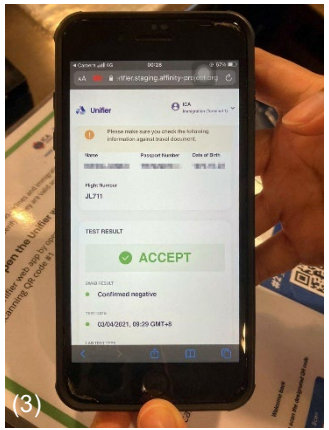
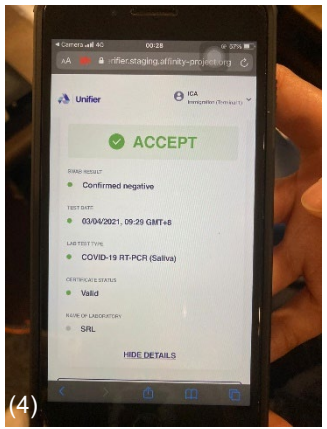


(3)

Screenshot of the CommonPass read by Unifier.



(4)

View of the inspection details.

※ Affinidi, the company TCP works with, is a technology company wholly owned by Temasek, a Singapore sovereign wealth fund.

U.S.: Demonstration experiments in New York and Hawaii

New York Flight Demonstration (ANA)

Checking PCR test results with an app
All Nippon Airways to conduct verification experiment at airports　First in Japan

PCR検査結果をアプリで確認 全日空が空港で実証実験 国内初

2021年3月29日 13時02分

"Just show your smartphone" for smoother boarding procedures　Demonstration experiment with digital certificates

ANAなど、新型コロナ検査履歴のデジタル証明アプリ「コモンパス」の実証実験を開始

2021.03.29

ANA, etc. start demonstration test of CommonPass, a digital proof application for the new Corona inspection history

全日本空輸（ANA）とスイスの非営利組織コモンズ・プロジェクトは2021年3月29日、新型コロナウイルス感染症の検査履歴をスマートフォンで表示するデジタル証明書アプリ「コモンパス」の実証実験を開始した。同日の羽田発ニューヨーク行きのANA便で乗客2人が使用した。同アプリと検査機関のシステムをAPI（アプリケーション・プログラミング・インターフェース）でつなぐことで、乗客がアプリで陰性証明を提示するなどして円滑に海外渡航できる環境を整備する。

羽田空港で実施した実証実験の様子。コモンパスのデジタル証明書の画面を表示し、チェックインカウンターで係員に示す
（撮影：日経クロステック）
[画像のクリックで拡大表示]

搭乗手続きにデジタル証明、羽田

コロナで実証実験、全日空使

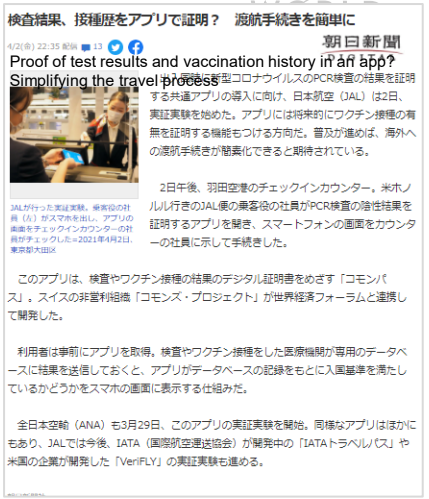
2021/3/29 11:11 (JST)　©一般社団法人共同通信社

Digital proof for check-in, Haneda

デジタル証明書を利用する実証実験を行う搭乗者＝29日午前、羽田空港

Negative proof smartphone application, ANA's verification experiment for international flight check-in procedures

Hawaii flight verification (JAL)



Proof of test results and vaccination history in an app?
Simplifying the travel process

JAL to conduct a demonstration experiment to introduce three digital certificates Starting with the CommonPass

List of major media

TV (NHK, TBS, Fuji TV, TV Asahi, TV Tokyo)
News agencies and newspapers (Kyodo News, Jiji Press, Reuters, Yomiuri, Asahi, Sankei, Nikkei, Tokyo and other block newspapers)
English-language related (JAPAN TIMES/Nikkei Asia/Kyodo News)
Magazines and trade publications (Nikkei Cross Tech, Travel Voice, Travel Watch, AviationWire, TRACY)

Summary of demonstration results at ANA and JAL

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1. All flights out of Japan, including New York, Honolulu, and Singapore, went smoothly, and both passengers and counter staff generally gave high marks.
 ・In addition to reducing the burden, it also improves safety, and was highly evaluated.
 ・Since we know in advance where we need to visually check, it is very easy to prepare and respond.In particular, it is very effective in cases where it is necessary to check whether the elapsed time after the test is within 72 hours or not.
 ・In terms of U/I, there are cases where we have to keep customers' cell phones or ask customers to scroll through them, which is a bit of a concern.
 (Depending on the country, confirmation of the testing method, specimen collection method, etc. may be required in some cases.
・Requests for integration with IATA's travel conditions database Timatic, and integration with passenger reservation, ticketing, and boarding management systems for airlines such as Altea

2. For entry into Singapore, the immigration system and the Common Pass will be linked and integrated.
・It is necessary to confirm that the data used is not being imported into the Singapore government system.
 (The design concept of the common path is to exchange only acceptance/denial data, while the Singapore government expects to capture data?

3. There was an incident on the Singapore flight regarding re-entry into Japan.
・Japanese immigration requires paper submissions, not digital submissions, so instead of using the Common Pass, take the test at a clinic in Singapore, have the certificate issued, and submit it.
・Singapore's certificate form does not indicate the date and time of the last inspection, so it does not meet the entry requirements and cannot leave the country.(I was unable to board the originally scheduled flight and returned home on a later flight.)
・There are countries that allow entry with the original inspection certificate, and Japan did not accept the certificate.
(→ It was an opportunity to reconfirm the problems of paper operation, such as the complexity of paper operation and the large burden of handling such cases.)

Current status of CommonPass

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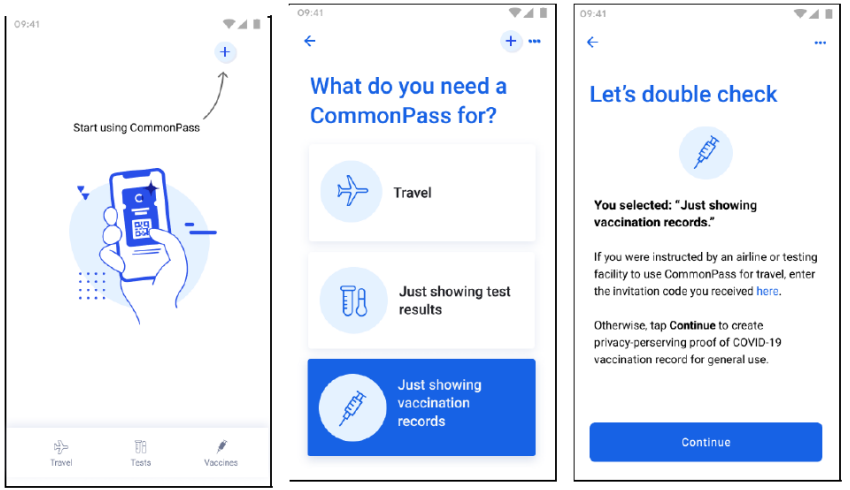
・Promote the display of vaccination history in cooperation with VCI (California has decided to issue SMART Health Cards as standard)

・Coordinate with Amadeus for direct connection to their reservation system

・Strengthen the compliance engine by using information from Timatic and ICTS and by integrating with Affinidi.



CommonPass - Compliance Engine

Q. (Rules) What does the compliance engine do?

A. The compliance engine will check the following information contained in the inspection records and certificates provided by the user against the entry requirements of each country

(1) ID type (e.g. passport), (2) nationality, specific test code (LOINC), (3) type of test, (4) distinction between in-person or home testing, (5) laboratory and other details, and (6) various time designations (e.g., ○ hours or ○ days, estimated departure time or estimated arrival time).

The system is designed to go beyond PCR test results to accommodate rules based on vaccination and combinations of vaccination and test results when vaccination histories become widely available.

Q. How are the entry requirements of the destination country collected and incorporated?

A. In a situation where countries/regions have not yet announced their entry requirements in a uniform format, we are pursuing the following three methods in parallel from a practical standpoint

(1) Optimal solution: Each country/region formally enters and updates rules in machine-processable form for the compliance engine

(2) Practical solution: Strategic alliances with organizations that are attempting to consolidate immigration requirements. Specifically, discussions are underway with data provision systems for airlines (e.g., ICTS, Sherpa, Timatic) and major travel agencies (e.g., Trip.com). However, these organizations also face issues such as accuracy and time lag without (1).

(3) Short-term measure: Manually check priority countries, such as those conducting demonstration experiments. However, the data structure suffers from the same problem as in (2).

Q. What is the status of the compliance engine discussions with each country?

A. Each country/region is classified into the following four groups

(1) Possible implementations: U.S. mainland, U.S. state of Hawaii, Aruba, and six countries of the East African Community (Burundi,Kenya,Rwanda, South Sudan, Tanzania, and Uganda)

(2) In preparation for implementation:(empirical evidence has been presented)Singapore, Hong Kong, UK, Australia

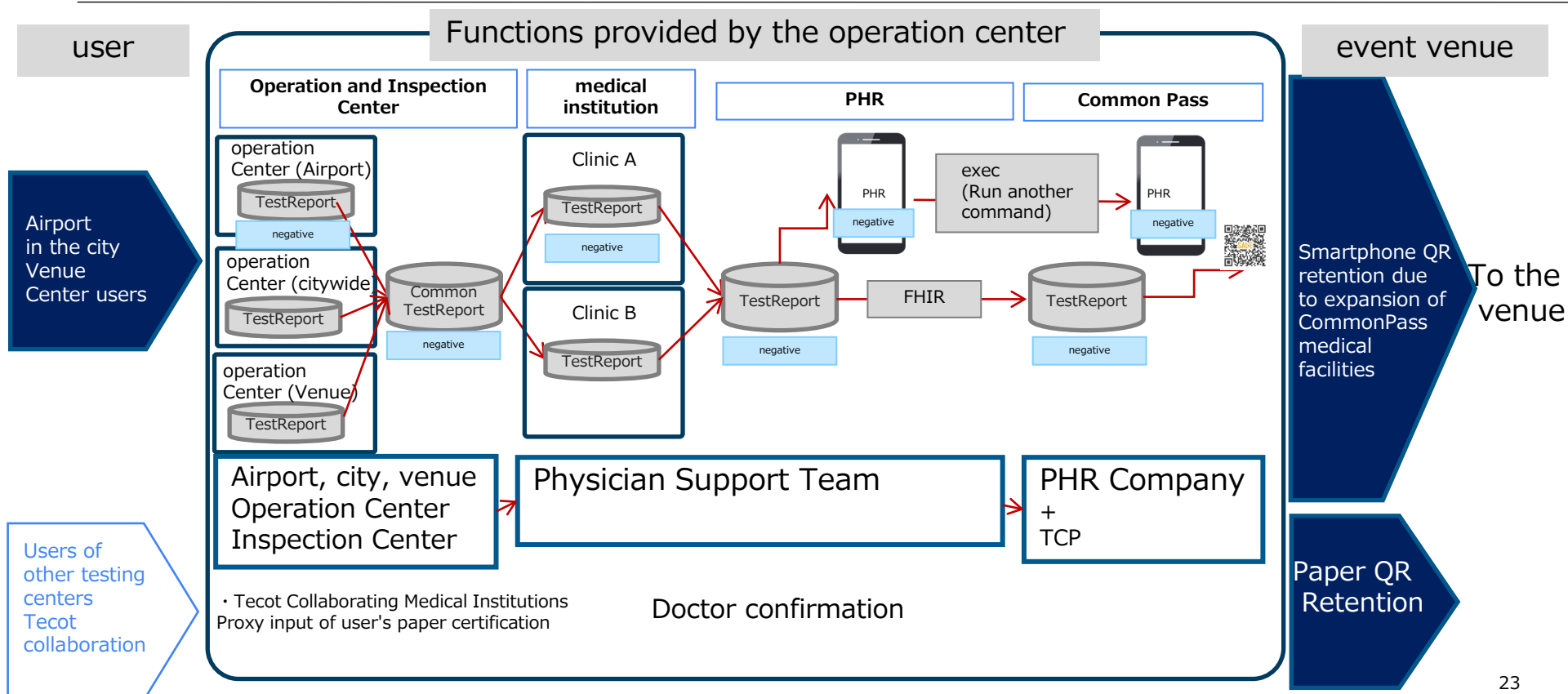
(3) Under final adjustment: Canada, New Zealand

(4) In consultation with: India, Australia, Germany, Switzerland, Greece, Israel, Bangladesh, Belize, Bermuda, Brazil, Colombia, Hungary, Italy, Poland, Colombia

Q. Is it likely to include only health-related items? Will other entry requirements be included?

A. At the moment we are focusing on health-related entry requirements. The engine itself is versatile and can be expanded to non-health requirements.

Proposed domestic demonstration study (use at events)



"Vaccine passports" are controversial around the world.

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- The EU Digital COVID Certificate (Digital Green Pass) will be available from July 1, 2012.
- UK Vaccination Certification by NHS App
- Israel abolished the vaccine passport after introducing it.
- In the U.S., it varies from state to state.

Current Landscape of Vaccine Credential Initiatives

Initiative	Technical Approach	Standard Vs Solution	Lead Organization
Smart Vaccination Certificate	Interoperable digital Credentials based on open standards	Standards	World Health Organization
CommonPass and CommonHealth	Open credential standard and Quick Response (QR) code	Solution based on open standards	The Commons Project Foundation and World Economic Forum
IATA Travel Pass	Using Vaccine Credentials standard and QR Code	Solution with Trusted Partners	International Air Transport Association (IATA)
COVID-19 Credentials Initiative (CCI)	Privacy-preserving verifiable credential	Standard and Solution	Linux Foundation Public Health
ICC AOKpass	Platform and mobile application using blockchain technology	Standard and Solution with trusted Partners	The International Chamber of Commerce (ICC)
Skyflow for Healthcare	Proprietary Standard	Solution with trusted partners	Skyflow (Private Company)
VeriFLY	Proprietary Standard	Solution with trusted partners	Daon (Private company)
CoronaPass	Proprietary Standard	Solution for COVID-19 policy implementation and risk management	Bizagi (UK software company)
Vaccination Credential Initiative (VCI)	Open standards based on FHIR and W3C Verifiable Credentials standard	Open Standard	The Commons Project Foundation, Epic, Evernorth, Mayo Clinic, Microsoft, MITRE, Oracle, Safe Health, Salesforce.

The Office of the National Coordinator for Health Information Technology

Current Landscape of Vaccine Credential Initiatives

Initiative	Technical Approach	Standard Vs Solution	Lead Organization
IBM Digital Health Pass	Blockchain-based platform	Open Standards based Solution	International Business Machines Corporation (IBM)
MIT SafePaths Vaccination Cards	Augment existing infrastructure to support end to end privacy and encryption	Standards and Solution for both App and non-App	MIT
Boost-19 for Vaccination and Covid-19 EN App	Exposure Notification using Google Apple Exposure Notification	Solution based on open Standard	PathCheck Foundation
Vaccine Diary Protocol	Cryptographic protocols for vaccine eligibility, dose coordination, and reporting side effects	Open Standard	Trusted Pandemic Technologies (MIT and Brown University)
Good Health Pass	Developing Trust Framework	Trust Framework	MasterCard
Proofing Citizens' COVID-19 Vaccination	Proprietary Standard	Solution for digital Identity	1Kosmos BlockID (Private Company)
CANImmunize App	Not known	Solution	Canadian Health System
Consensas Information Passport	Based on W3C Verifiable Credentials Standard	Solution for digital immunization passport	Consensas (private company)

Hawaii: Governor's announcement of collaboration with CommonPass

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Governor of the State of Hawai'i
DAVID Y. IGE

State of the State Address

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FROM THE GOVERNOR: HOPEFUL SIGNS AFTER A LONG, HARD YEAR

Posted on Mar 30, 2021

Q: Are plans under way for fully vaccinated travelers to have a "vaccine passport"?

A: I'm in discussions with the White House, along with the other governors, about making a national vaccination passport a priority. In the meantime, Hawai'i is working on a pilot project in cooperation with **CommonPass**, a health information platform, that can access a wide variety of test facilities across the country to validate tests and vaccinations. They have a network of over 30,000 labs that could implement the guidelines to expand our Safe Travels program for trusted testing partners.

Q. ワクチンを接種した旅行者が「ワクチン・パスポート」を取得できるようにする計画は進んでいますか？

A. ホワイトハウス及び他の州知事と国内共通のワクチン・パスポートを作ることに優先的に取り組むべく協議しています。同時に、ハワイ州としては、医療情報プラットフォーム、**コモンパス**と連携し、全国の検査機関が実施した検査やワクチン接種が[ハワイ州に渡航する]要件を満たしていることを検証できるようにする実証実験を稼働させます。コモンパスは、全米で30,000の検査機関の連携しており、[ハワイ州の]Safe Travels プログラムの拡大に寄与します。

https://governor.hawaii.gov/main/from-the-governor-hopeful-signs-after-a-long-hard-year/

WHO policy (June 4, 2021)

WORLD ECONOMIC FORUM

・Smart Vaccination Certificate ⇒ Digital Documentation of COVID-19 Certificate (DDCC) to provide guidelines for COVID-19 vaccination status, SARS-CoV-2 test results, and COVID-19 recovery status.

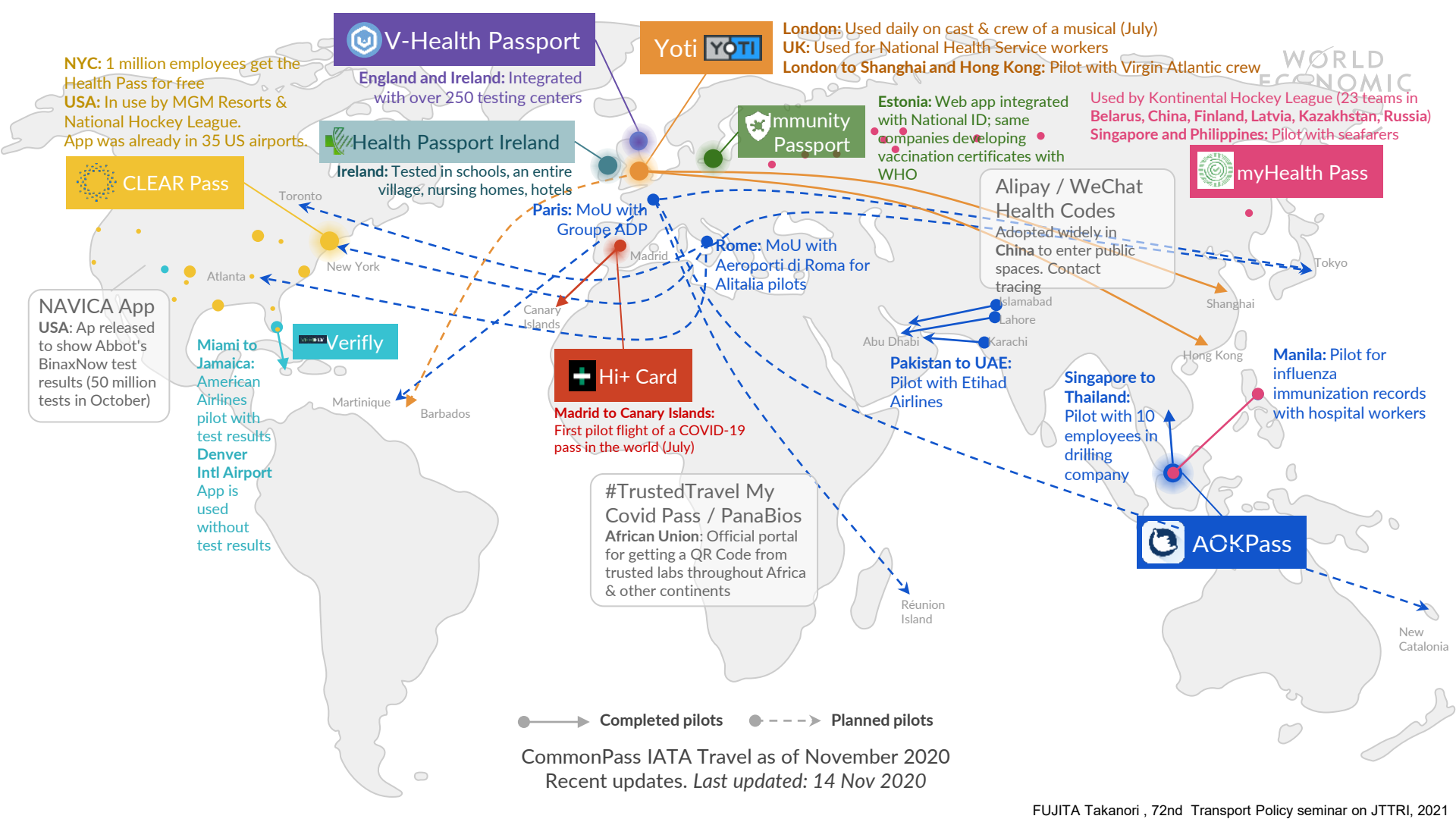
・The Global Health Trust Framework is not included in the above guidance.

https://www.who.int/news/item/04-06-2021-revised-scope-and-direction-for-the-smart-vaccination-certificate-and-who-s-role-in-the- global-health-trust-framework

oneworld, SkyTeam and Star Alliance support a globally harmonised approach to health testing to build a framework of trust

November 11, 2020

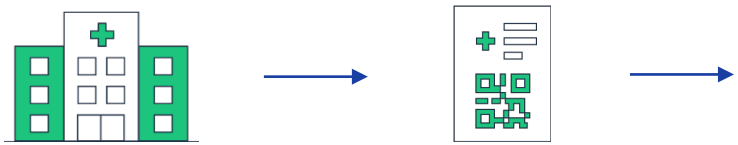
"The recent digital 'health pass' trials, such as CommonPass, are presenting a strong case for using digital technology to deliver harmonised standards in the validation and verification of accredited passenger health data. The alliances support technical solutions that provide a consistent, scalable and affordable way to declare passenger health data that is simple to implement as part of the customer journey, with processes initiated pre-travel to reduce passenger inconvenience at airports."


V-Health Passport
England and Ireland: Integrated with over 250 testing centers
NYC: 1 million employees get the Health Pass for free
USA: In use by MGM Resorts & National Hockey League.
App was already in 35 US airports.
Yoti
London: Used daily on cast & crew of a musical (July)
UK: Used for National Health Service workers
London to Shanghai and Hong Kong: Pilot with Virgin Atlantic crew
WORLD ECONOMIC
Health Passport Ireland
Ireland: Tested in schools, an entire village, nursing homes, hotels
mmunity Passport
Estonia: Web app integrated with National ID; same companies developing vaccination certificates with WHO
Used by Kontinental Hockey League (23 teams in Belarus, China, Finland, Latvia, Kazakhstan, Russia)
Singapore and Philippines: Pilot with seafarers
CLEAR Pass
myHealth Pass
Toronto
Paris: MoU with Groupe ADP
Alipay / WeChat Health Codes
Adopted widely in China to enter public spaces. Contact tracing
New York
Madrid
Rome: MoU with Aeroporti di Roma for Alitalia pilots
Tokyo
Atlanta
Islamabad
Shanghai
Canary Islands
Lahore
Abu Dhabi
Karachi
NAVICA App
USA: Ap released to show Abbot's BinaxNow test results (50 million tests in October)
Verifly
Hong Kong
Manila: Pilot for influenza immunization records with hospital workers
Miami to Jamaica: American Airlines pilot with test results
Denver Intl Airport App is used without test results
Martinique
Barbados
Hi+ Card
Madrid to Canary Islands: First pilot flight of a COVID-19 pass in the world (July)
Pakistan to UAE: Pilot with Etihad Airlines
Singapore to Thailand: Pilot with 10 employees in drilling company
#TrustedTravel My Covid Pass / PanaBios
African Union: Official portal for getting a QR Code from trusted labs throughout Africa & other continents
AOKPass
Réunion Island
New Catalonia
Completed pilots
Planned pilots
CommonPass IATA Travel as of November 2020
Recent updates. Last updated: 14 Nov 2020

CommonTrust Network

Data Source
- Inspection agency
- Vaccination
- Organization Public Health Registry

Verifiable health certificate
- Test results
- Vaccination records
- Paper or digital



CommonTrust Network's data sources issue test results and vaccination histories as verifiable health certificates.

These certificates can be stored and carried on paper or in a compatible digital wallet (e.g., National Health App, Vaccine Passport, Apple Health, CommonHealth, EAC Pass, CLEAR, YOTI, IBM Health Pass, etc.).

CommonPass verifies these certificates with the consent of the user. It verifies that they are issued from a trusted data source and checks them against the entry (admission) requirements.

If it is determined that the requirements are met, CommonPass will issue a certificate. The user presents it and is subject to visual or scan verification. If necessary, a privacy-preserving copy will be maintained in the CommonPass repository for access to API queries. No personal health information will be disclosed to the destination country or public transportation or facilities.

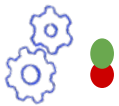
Common Trust Network Framework

1. registration database of institutions approved for testing and vaccination

2. adoption of information codes for test results and vaccinations and medical information coordination standards that ensure international compatibility

3. a system to link test results and vaccination history to a person's ID (e.g., passport number) while protecting privacy.

4. real-time database of immigration standards for each country



5. software to verify that entry and exit criteria are met

6. a mechanism to link APIs with related applications in each country

A growing global network of testing providers, vaccination providers, and public health registries.

CommonTrust Network now in 32 countries

https://www.commontrustnetwork.org/

Future tasks

- International collaboration to ensure global interoperability
  (Promotion of standardization, collaboration with WHO**)**
- Method of ensuring the reliability of inspection bodies, etc. (other than TeCOT collaboration)
- Importing entries and exits into the system
- Support for non-smartphone holders
- Expansion for use in events such as the Olympics and Paralympics
- Expanded availability as a PHR, including COVID-19 cure history and data related to infectious diseases other than COVID-19