

# **IIS Consumer Access Strategies in the Age of COVID**

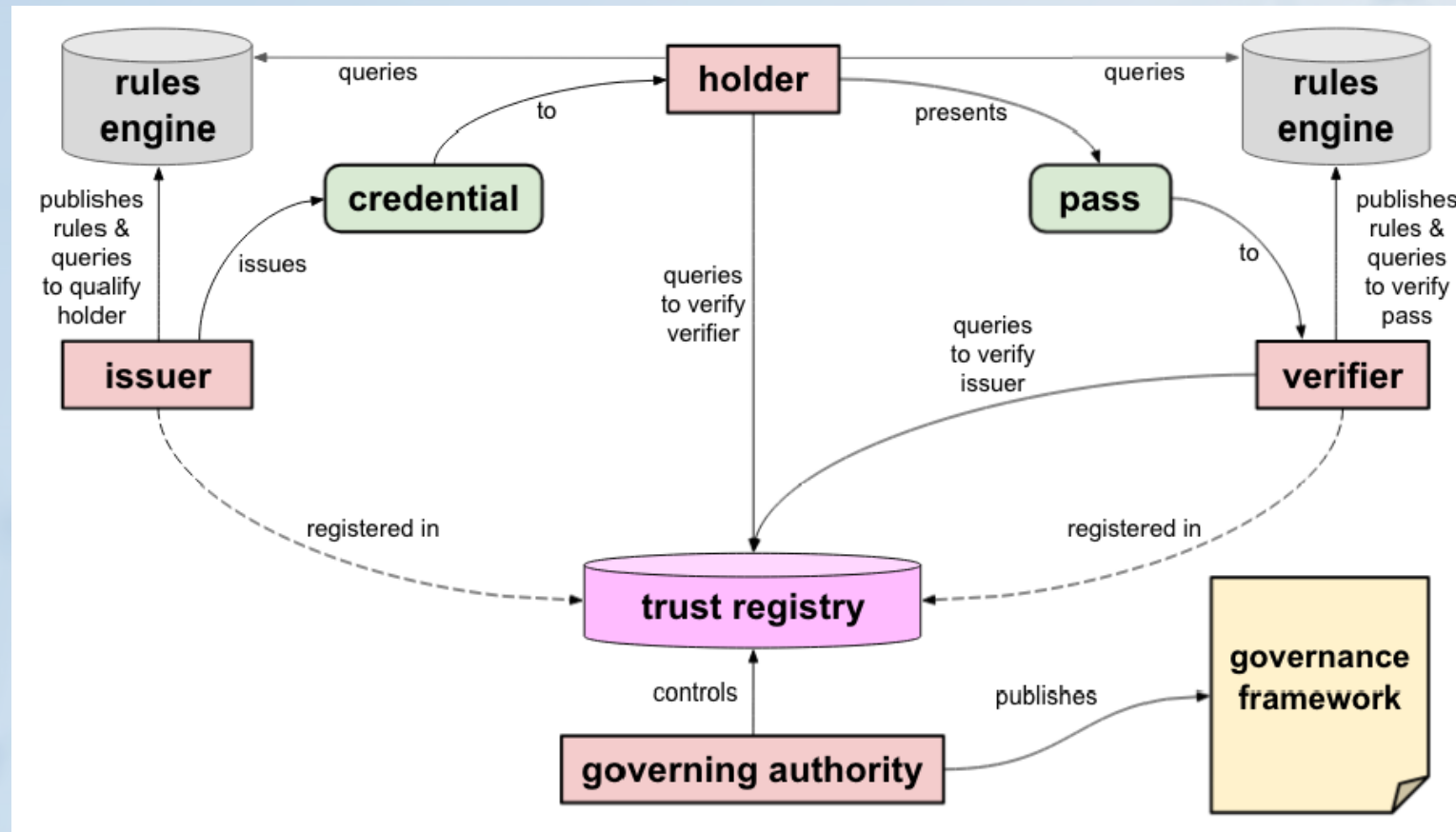
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AIRA 2021 National Meeting  
August 4, 2021

# The Need

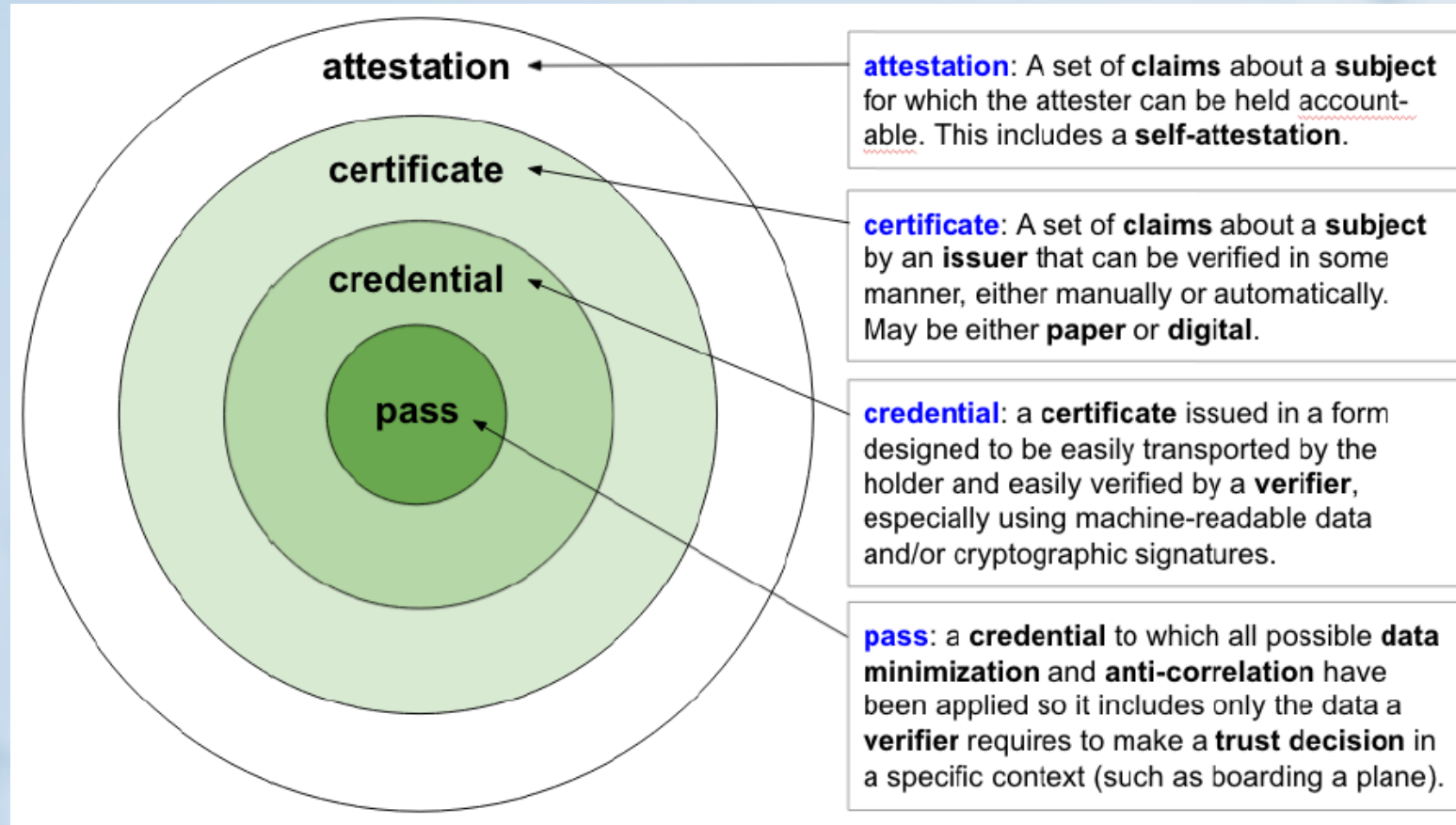
- Falls into a broader topic of consumer access to vaccination data
- There are several valid scenarios where validated proof of up-to-date vaccination status for COVID-19 and other vaccine-preventable diseases would be useful
  - Travel
  - Work/school attendance
  - Large venue events
- These scenarios may or may not persist as time goes on, but the likelihood of the need for COVID-19 annual boosters only increases the potential need for ongoing record keeping and proof of vaccination for some time into the future.
- Global shift to digital vaccine credentials at least for COVID, maybe other vaccines (and tests) in the future

# The Good Health Pass Ecosystem



Courtesy of [Good Health Pass Collaborative](#)

# Core Terminology



Courtesy of [Good Health Pass Collaborative](#)

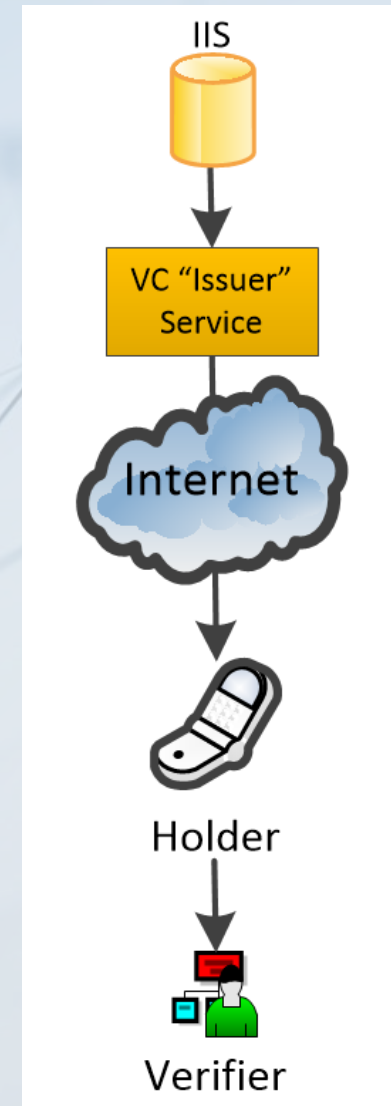


# Technical Standards & Implementation

- The technical standards for vaccine credentials seem to be coalescing around HL7 Fast Healthcare Interoperability Resources (FHIR) and SMART Health Cards
- The US does not have the trust framework in place to manage the Public Key Infrastructure (PKI) necessary for digitally-verifiable credentials at a national level.
- There is a distinct underappreciation for issues related to determining if vaccinations are valid versus whether they simply were administered.
- There are many, many applications being developed for both consumer credential “holder” wallets, generation of a health pass based on some set of “rules,” and for verifiers who want to view verifiable credentials.
- Some state and local governments have prohibited requiring proof of vaccination.

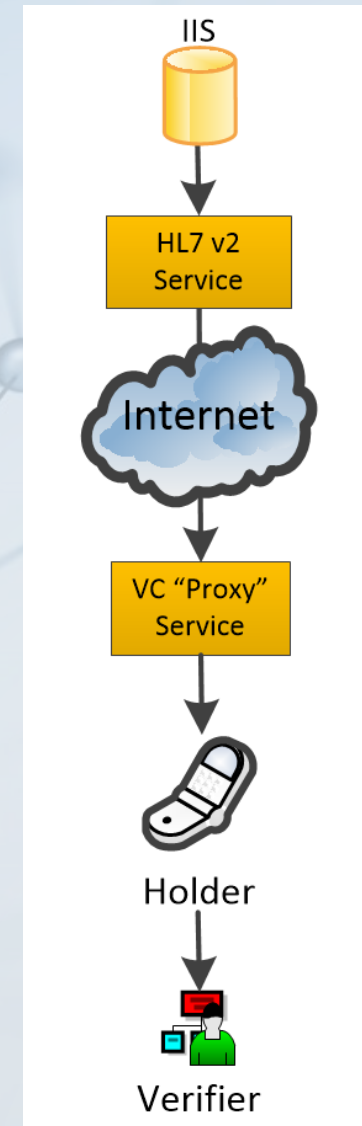
# Simplest Strategy

- IIS should provide access to standards-based vaccine credentials through a FHIR-based API and SMART Health Cards.
- IIS would function as a vaccine credential issuer and provide digitally-verifiable source of vaccine information to consumer apps.
- For people who may have vaccination records in more than one IIS, record consolidation should be achieved either via IIS-to-IIS communication or via app access to multiple IIS.
- IIS should continue to provide traditional, complete vaccination records which contain both vaccine history and vaccine forecast for a patient.



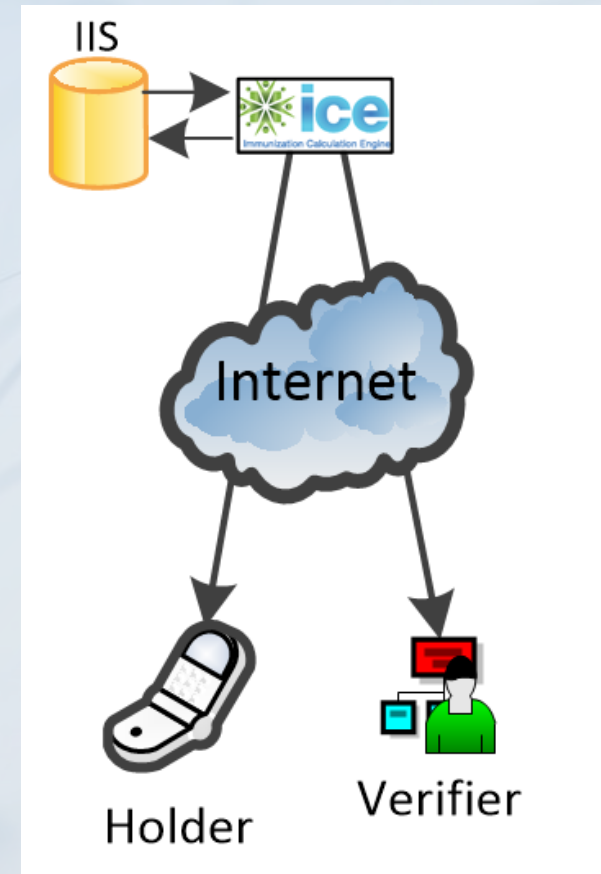
# Fallback Strategy

- IIS partner with a single vaccine app provider to function as a “proxy” issuer of vaccine credentials for COVID-19 on its behalf. This app would query IIS via current HL7 v2 standards and in turn provide standards-based vaccine credentials through a FHIR-based API.
- The app would serve as the authorized, digitally-verifiable source of vaccination information in that jurisdiction.
- IIS should authorize the proxy issuer to provide vaccine credentials to other authorized consumer apps that meet jurisdiction-defined policies for identifying patient records in the IIS.
- IIS could provide their own consumer app.



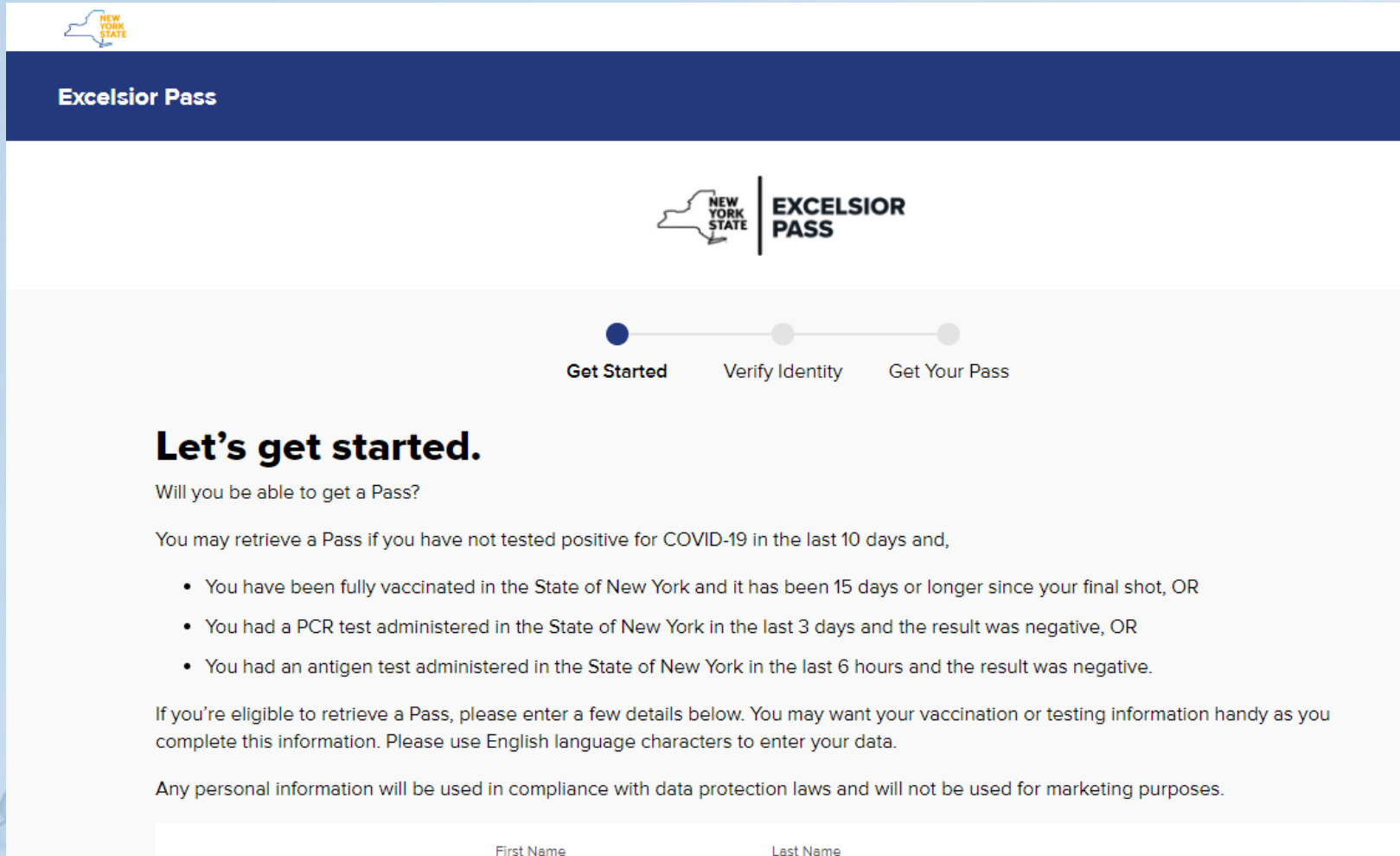
# Supplemental Strategy

- IIS should offer a new service by offering their immunization evaluation and forecasting rules systems to consumer apps via API to ensure that health passes are based on valid vaccinations and not just a count of doses administered.
- One example of such a service is the open source [Immunization Calculation Engine](#) (ICE).





# Example 1: NYS Excelsior



The screenshot shows the NYS Excelsior Pass website. At the top is the New York State logo and the text "Excelsior Pass". Below this is a progress bar with three steps: "Get Started" (active), "Verify Identity", and "Get Your Pass". The main heading is "Let's get started." followed by the question "Will you be able to get a Pass?". Below this, it states "You may retrieve a Pass if you have not tested positive for COVID-19 in the last 10 days and," followed by a bulleted list of eligibility criteria. The criteria are: "You have been fully vaccinated in the State of New York and it has been 15 days or longer since your final shot, OR", "You had a PCR test administered in the State of New York in the last 3 days and the result was negative, OR", and "You had an antigen test administered in the State of New York in the last 6 hours and the result was negative." Below the list, it says "If you're eligible to retrieve a Pass, please enter a few details below. You may want your vaccination or testing information handy as you complete this information. Please use English language characters to enter your data." At the bottom, there is a disclaimer: "Any personal information will be used in compliance with data protection laws and will not be used for marketing purposes." and two input fields labeled "First Name" and "Last Name".

**Excelsior Pass**

**Let's get started.**

Will you be able to get a Pass?

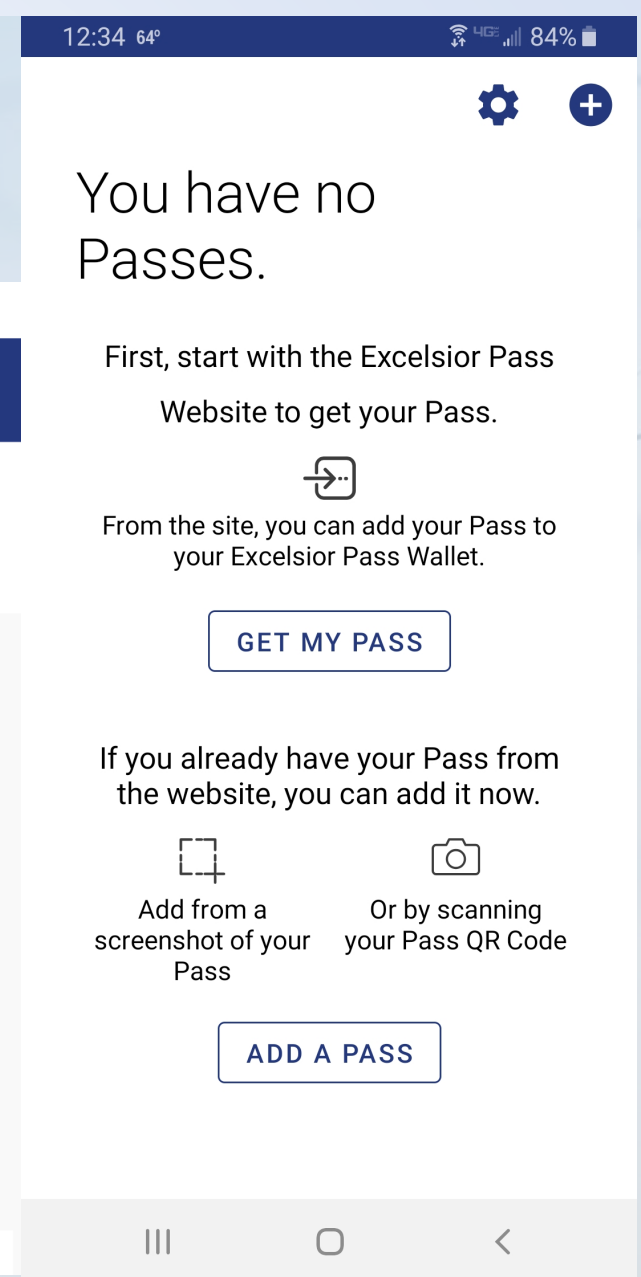
You may retrieve a Pass if you have not tested positive for COVID-19 in the last 10 days and,

- You have been fully vaccinated in the State of New York and it has been 15 days or longer since your final shot, OR
- You had a PCR test administered in the State of New York in the last 3 days and the result was negative, OR
- You had an antigen test administered in the State of New York in the last 6 hours and the result was negative.

If you're eligible to retrieve a Pass, please enter a few details below. You may want your vaccination or testing information handy as you complete this information. Please use English language characters to enter your data.

Any personal information will be used in compliance with data protection laws and will not be used for marketing purposes.

First Name Last Name



The screenshot shows a mobile app interface for the NYS Excelsior Pass. At the top, the status bar shows the time 12:34, temperature 64°, and battery level 84%. Below the status bar are icons for settings and a plus sign. The main heading is "You have no Passes." Below this, it says "First, start with the Excelsior Pass Website to get your Pass." followed by a link icon. Below the link icon, it says "From the site, you can add your Pass to your Excelsior Pass Wallet." Below this is a button labeled "GET MY PASS". Below the button, it says "If you already have your Pass from the website, you can add it now." Below this are two options: "Add from a screenshot of your Pass" with a screenshot icon, and "Or by scanning your Pass QR Code" with a camera icon. Below these options is a button labeled "ADD A PASS". At the bottom, there are three icons: a hamburger menu, a home button, and a back arrow.

**You have no Passes.**

First, start with the Excelsior Pass Website to get your Pass.

From the site, you can add your Pass to your Excelsior Pass Wallet.

**GET MY PASS**

If you already have your Pass from the website, you can add it now.

Add from a screenshot of your Pass

Or by scanning your Pass QR Code

**ADD A PASS**

# Example 2: CA Digital COVID-19 Vaccine Record

Record, [visit our FAQ](#).

Please fill out the required fields to receive a link to a QR code and digital copy of your COVID-19 vaccination record:

Required fields marked with \*

First name \*

Last name \*

Date of birth \*



Provide the cell phone or email used when you received your COVID-19 vaccine.

☒ Cell Phone ☐ Email

Cell Phone \*

Set a 4-digit PIN code to access your vaccine record. \*

— — — —

**Note:** this PIN code will not be sent to you, so please ensure you write it down for future use.

☐ By checking this box, you are declaring under penalty of perjury under the laws of the State of California that you are the Patient or



## Vaccination Information:

**Name:** Noam Arzt

**DOB:**

**Dose #1 Date:** 03/30/2021

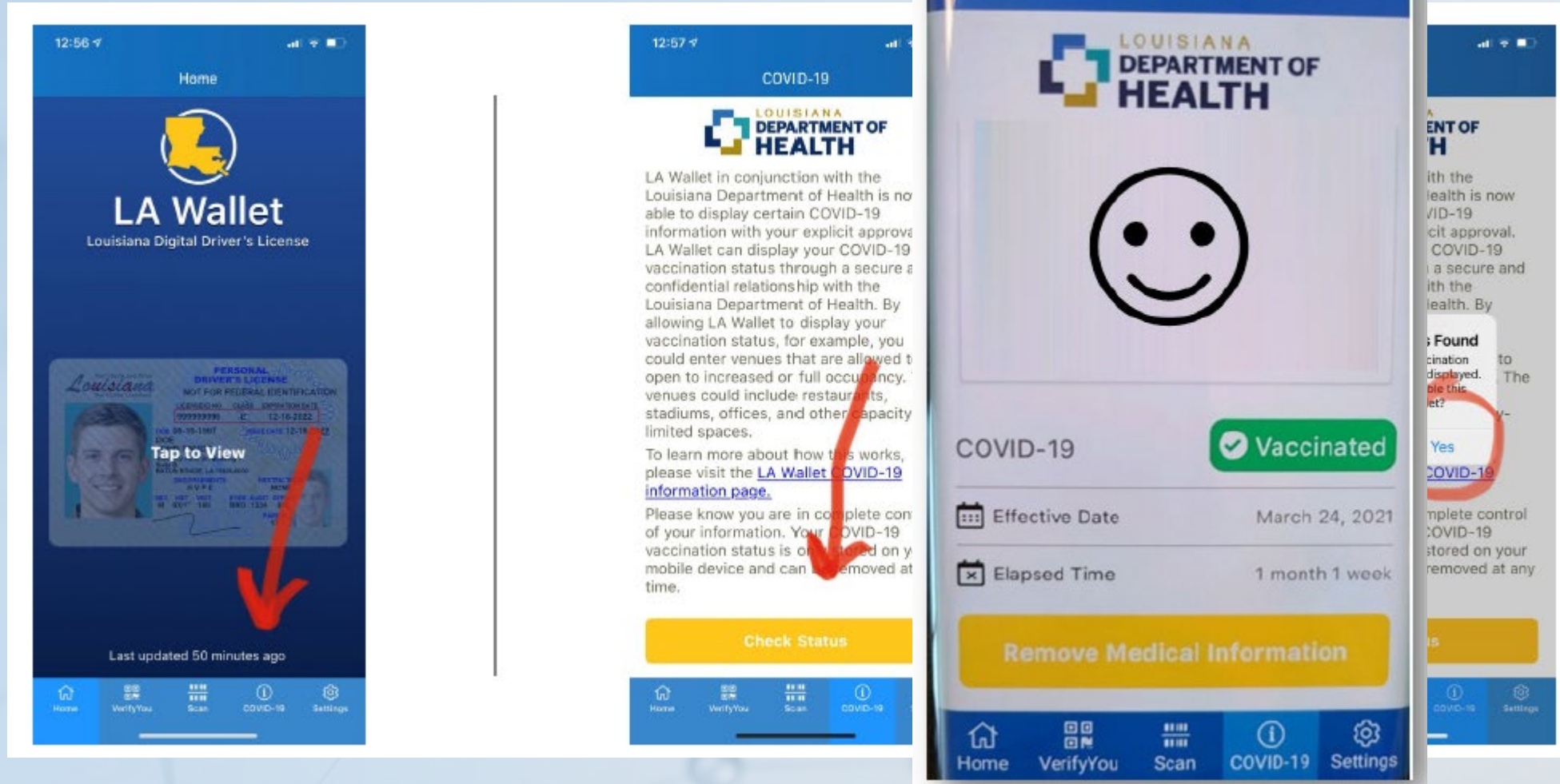
**Dose #1 Type/Mfr:** Pfizer

**Dose #2 Date:** 04/21/2021


**Dose #2 Type/Mfr:** Pfizer




# Example 3: LA Wallet



# Example 3: Hawaii Travel


**Mandatory State of Hawaii Travel and Health Form**  
Logged In As: arzt@hln.com (Last Login: 2021-07-18)

Language ▾ [Home](#) [Help](#) 

## Safe Travels


For our visitors, friends and ohana traveling to Hawaii.

The State of Hawaii actively screens and monitors travelers for public health and safety.  
It is required that all travelers provide the information in the required fields marked with an asterisk (\*).  
Hawaii Revised Statutes Section 127A-12 and 127A-13.




### Trips

Add one or more of your upcoming trips with travel dates and flight information. This will help make the process more efficient.




### Apply for Exemption/Exception from Quarantine

COVID-19 Vaccination Exception, NAAT/PCR Test Exception & ATG Exemption



### Health Questionnaire

Please complete the health questionnaire 24-hours prior to your flight. You will receive an email with a QR code that will be scanned by a screener at the airport.



### Daily Check-ins

If you are in quarantine, check-in daily for 10 days and complete a simple form.



# Example 3: Hawaii Travel

## HOW TO EXPEDITE EXCEPTION FROM QUARANTINE

- Under Governor Ige's emergency proclamation, all travelers entering the State of Hawai'i must self-quarantine for 10 days, unless they obtain an exception/exemption.
- You can apply for an exception/exemption by:
  - Uploading a negative COVID-19 test result from Hawaii's Trusted Testing and Travel Partners, found on <https://hawaiicovid19.com/travel-partners/>
  - Uploading a picture of your COVID-19 vaccination card
  - Using digital health pass such as CommonPass or Clear - to present either a negative COVID-19 test or proof of vaccination
  - Applying for a specialty exemption at <https://ag.hawaii.gov/travelexemption/>

### Note

- Negative COVID-19 tests and vaccinations are verified by labs. Submitting a falsified test is a crime and will be prosecuted.



COVID Vaccine Exception



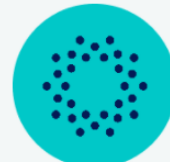
COVID NAAT/PCR Test Exception



Other Document Uploads



CommonPass Exception




Clear Exception



ATG Exemption

# Example 3: Hawaii Travel



The CommonPass exception applies for COVID-19 tests and vaccines


Please select the trip \*


Please select the Traveler \*

CommonPass


From the CommonPass app, copy the CommonPass ID from your **Travel to Hawaii** pass (under the QR code) and paste above


Verify CommonPass

  
c34c9a36-a87d-4ee7-8cfe-df0a620a1602

  
c34c9a36-a87d-4ee7-8cfe-df0a620a1602

VACCINE DETAILS

 **Pfizer-BioNTech COVID-19**  
**Vaccine Dose #1 of 2**  
Mar 30, 2021, 5:00 AM PT

 **Pfizer-BioNTech COVID-19**  
**Vaccine Dose #2 of 2**  
Apr 21, 2021, 5:00 AM PT

# Additional Reading

- [A Complicated Path Forward in the US \(Part 1\) – Potential Sources of Data](#) (A discussion of the basic philosophy of the vaccine credentialing movement, including where data for use in a digital vaccine credential might come from in the US, IIS will likely be a major source of this data.)
- [A Complicated Path Forward in the US \(Part 2\) – Major Initiatives Underway](#) (A review of the major vaccine credentialing initiatives that are currently underway worldwide, including VCI, CCI, the EU and WHO.)
- [A Complicated Path Forward in the US \(Part 3\) – Recommendations](#) (Initial recommendations for how public health agencies in the US – federal, state, and local – should approach vaccine credentialing. Additional federal leadership would certainly be useful.)
- [WHO Interim Guidance](#) (Comments on the Interim Guidance released by WHO for member countries in March 2021. Their recommendations are particularly *unsuited* for the US)
- [It's All About the Rules!](#) (For vaccine credentialing to be effective the issue boils down to the rules that are going to be developed and adopted to make the SVC's usable. Many of these rules currently don't exist so we will start by analyzing some key factors.)
- [Vaccine Credential Activities: Redirecting the Conversation for Public Health Registries](#) (In this article we issue more specific advice for public health agencies about vaccine credentialing to reduce confusion about what vaccine credentialing is and how it functions.)
- [Vaccine Credentials Do Not Replace Full Vaccination Histories](#) (In this article we address the similarities and differences between vaccine credentials and traditional immunization histories and offer some opportunities for public health to maintain its role in data access.)
- [Towards a National COVID-19 Vaccine Credential Strategy in the US](#) (In this article we lay out a model for vaccine credentials in the US)

# Thank you!

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