





COVID-19 CREDENTIALS INITIATIVE

The COVID-19 Credentials Initiative (CCI) is an open global community looking to deploy and help deploy privacy-preserving verifiable credential projects in order to mitigate the spread of COVID-19 and strengthen our societies and economies.





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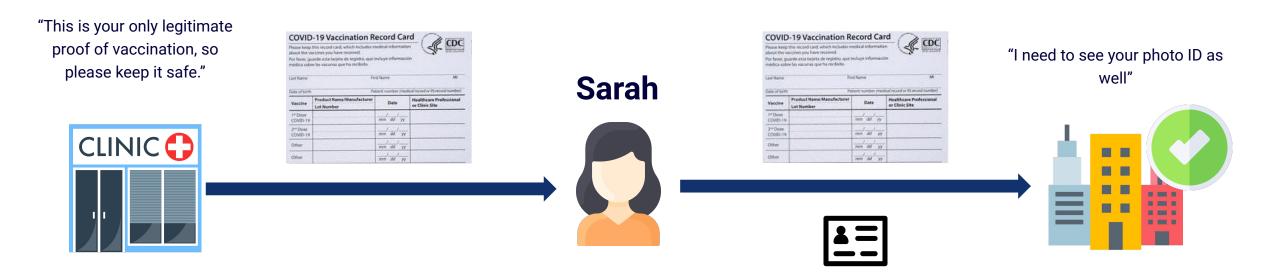
CCI joined Linux Foundation Public Health (LFPH) in December 2020 to work together on advancing 1) the use of Verifiable Credentials, and 2) data and technical interoperability of Verifiable Credentials in the public health realm, starting with vaccine records for COVID-19.



In CCI/LFPH context, we mean using of an emerigng open standard, Verifiable Credentials, to present proof of COVID-19 vaccination, which can be verified digitally, as an alternative to vaccination record cards.









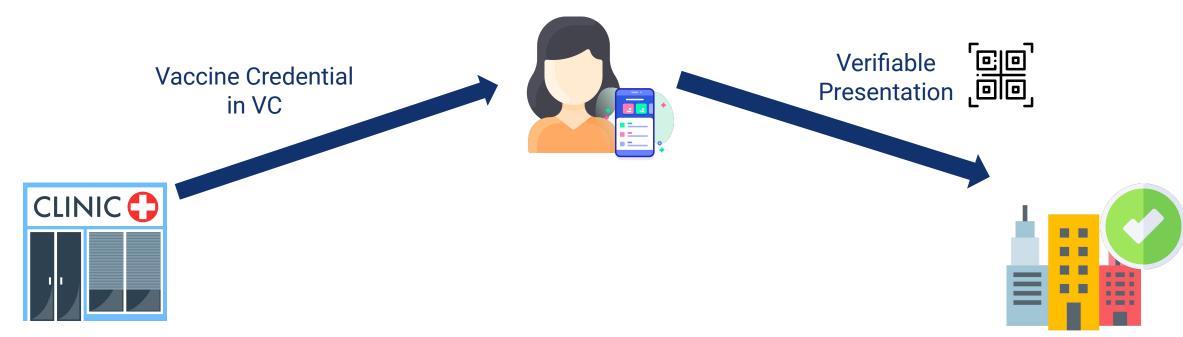




- What if Sarah lost her only card?
- What if Sarah fabricated her card? How was the verifier supposed to know?
- What if Sarah accidentally dropped the card in the water and the text went blurry?
- Did Sarah want the verifier to see all her information on the driver's license and vaccination record card?









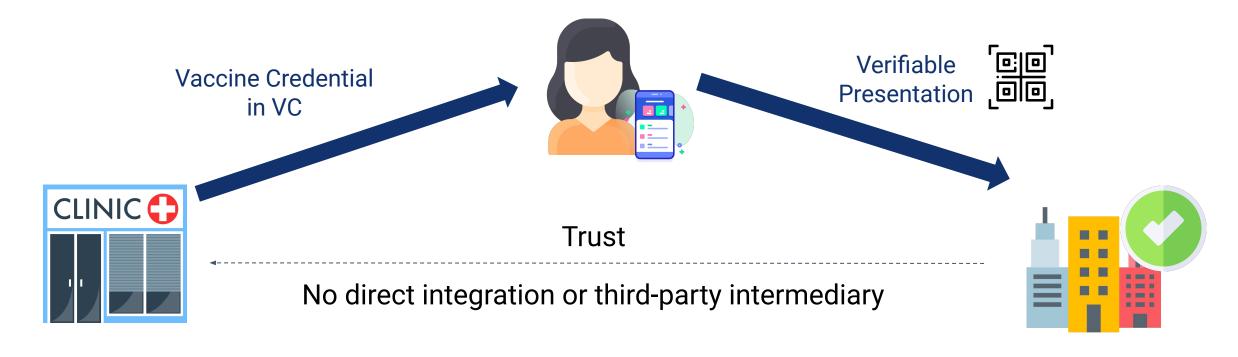




- The vaccine credential comes from a place which has the authority to issue it.
- The vaccination actually happened
- The vaccination happened to the person who presents this piece of credential
- The credential hasn't expired if there is an expiry date

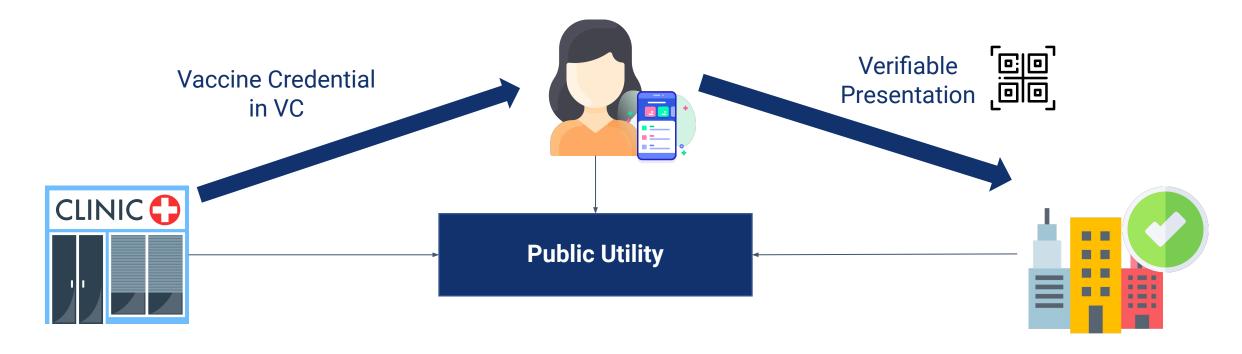






















Why Verifiable Credentials: VCs vs. Other Digital Alternatives



PDF Document

PDF is easier to store and has more durability, but the key drawback is it is not tamper-evident and not privacy-preserving.



Proprietary Software

Proprietary software that is <u>not</u>

<u>built on open standards</u> will

create silos and monopolies. And
it won't meet the interoperability

vaccine credential needs.



Network/Platform

Network/Platforms that are <u>not</u>

<u>built on open standards</u> will

create similar silos and won't

meet the interoperability need

either.





Emerging Standards & Technology

Existing Infrastructure and Workflows

Communications to the Public & Public Trust

Ecosystem Building and Governance





Emerging Standards & Technology

Existing Infrastructure and Workflows

W3C Verifiable
Credentials Data Model

VC-Related Technical Specifications

Vaccine Credential Related Standards





Emerging Standards & Technology

Existing Infrastructure and Workflows

Issuer/Sourcing Information Flow

Vaccine Record Registries

Compatibility with Healthcare Systems

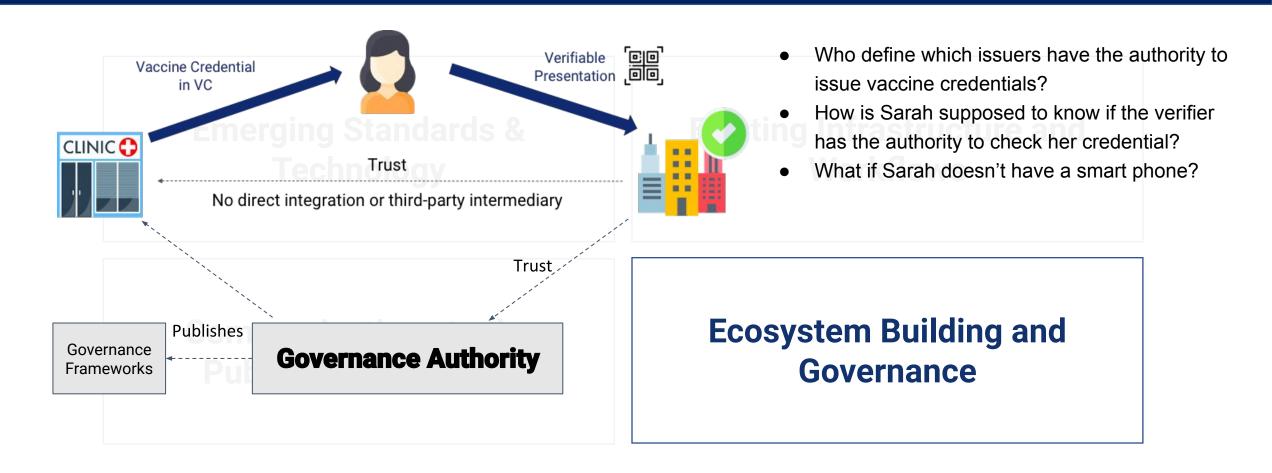
















CCI/LPFH's Goals and Activities

Communications

Public Health Authorities: Today's webinar is a good start

Commercial Entities: Working with LFPH members and CCI participants towards a list of potential vendors as a start

General Public: Mainstream media (e.g. NBC, CNN Business, etc.)

Open Standards

Understand existing landscape, align interoperability efforts, and facilitate the development of a common, open standard for vaccine credentials.

Open-Source Development

Understand existing landscape, define minimal viable components for open-source development, and develop/repurpose codebases.



Rules & Governance
Workstream

U.S. Vaccine Credentials Focus Group (Forming)





CCI/LPFH's Goals and Activities: Open Standards

WHO is assembling a panel of experts to work on Smart Vaccination Certificate.

We are joining the first discussion next week.

A Unified Verifiable Credentials

Data Format

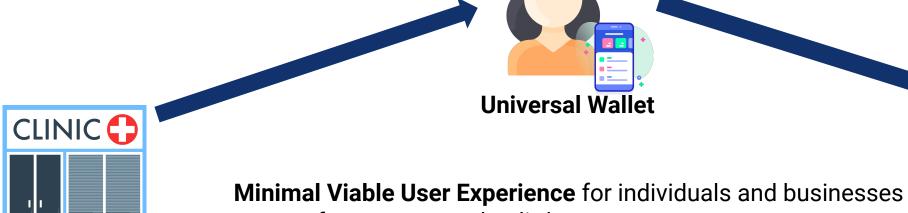
Standardized VC Exchange Protocols





Basic Issuer App

CCI/LPFH's Goals and Activities: Open-Source Development



to start fast, secure and at little to no cost.

Minimal Viable Components for PHAs and business to work with their solution providers to contextualize easily, cost-effectively without interoperability headaches.







CCI/LPFH's Goals and Activities

Use Case Implementation Workstream

This workstream identifies verifiable credentials (VCs) that are most useful to the COVID-19 response and provides a forum and platform for those who are implementing COVID-19 VCs to present their projects/solutions and get community input.

Rules & Governance Workstream

This workstream defines rules and guidelines for general or particular COVID-19 verifiable credential use cases and develops MVP governance frameworks to enable solutions to be deployed at speed.

U.S. Vaccine Credentials Focus Group (Drafting Charter)

We are working with community initiators to draft the charter. The goal is to bring together key stakeholders in the U.S. (or a state) to identify trusted and scalable ways of rolling out vaccine credentials and set up a template for other jurisdictions.



Join CCI Main Group - To receive regular CCI-wide announcements and news

Join a CCI Sub-Group - To receive regular activity notifications and start/join group discussions

- Use Case Implementation Workstream
- Rules & Governance Workstream

<u>Subscribe to Bi-weekly Community Newsletter</u> - To receive high-level CCI updates and related news (Automatic subscription if you join the above groups)

Follow us on Social: Twitter, Linkedin, Medium

Join LFPH Slack: There is a #cci channel





COVID-19 CREDENTIALS INITIATIVE



Lucy Yang

Community Director



John Walker **Community Architect**



Kaliya Young **Ecosystems Director**





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Thank you! Questions?

