

WEBINAR

Intro to LFPH

COVID Credential Projects



Ken Ebert, Cardea

Tony Rose, MedCreds

May 27 | 8 AM PST | 17.00 CEST

OLF PUBLIC HEALTH

Agenda

- › **Opening and Introductions (10 min)**

- Linux Foundation Public Health (LFPH) and COVID Credentials Initiative (CCI)
- LFPH Open Source Strategy for COVID Credentials
- LFPH COVID Credential Projects - Cardea and Medcreds

- › **Project Introductions and Demos (30 min, each 15 min)**

- › **Q&A and Open Discussions (20 min)**

About Linux Foundation Public Health (LFPH)

- › LFPH, a project of the Linux Foundation, works with public health authorities, healthcare organizations, technology vendors, academia, industry associations, and the public to **ensure that investments into public health technology meet common needs and have maximum impact.**
- › Launched July 2020, the initial focus of LFPH has been helping PHAs deploy a exposure notification apps implementing the Google Apple Exposure Notification (GAEN) system.
- › LFPH adopted the [COVID-19 Credentials Initiative](#) (CCI) in Dec 2020 to start a second focus on better technology for COVID credentials.

Building relationships with public health authorities

1450

Members in our
community



23

US States and
Territories

26+

Countries from
around the world

Exposure Notification Projects used in production



COVID Shield

2

countries



COVID
GREEN

4

US States

6

countries



HERALD

1

country

About the COVID-19 Credentials Initiative (CCI)

- › CCI is an open global community collaborating to **enable the use of open-standard-based privacy preserving credentials and other related technologies for public health purposes.**
- › CCI was started in April 2020 by a group of technologists building on **W3C Verifiable Credentials** prior to COVID and hoping to leverage the same open standard to help combat the global pandemic.
- › CCI joined LFPH in December 2020 to work more closely with key stakeholders in public health and expand its work into **standardization and software implementation.**
- › **CCI incubates ideas for credential-related projects and activities for LFPH.**

Key Efforts in Standardization

- **WHO Smart Vaccination Certificate:** CCI's Ecosystem Kaliya Young served on the expert panel of the WHO Smart Vaccination Certificate and contributed to the WHO Interim Guidance.
- **Good Health Pass Collaborative:** Kaliya is co-chairing the Interoperability Working Group of the [Good Health Pass Collaborative](#), an industry coalition that defines principles and standards for COVID credentials/health passes with a focus on reopening international travel.

Overview of CCI Community Groups

Use Case Implementation Workstream

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

[30+ presentations done so far](#)

Rules & Governance Workstream

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

2 versions of governance framework published ([V2](#))

Vaccine Credentials Focus Group

The goal is to form geography-focused subgroups under this group to bring together key stakeholders, especially public health authorities, to identify trusted and scalable ways of rolling out vaccine credentials.

The [first subgroup formed is for US](#).

CCI Summit Series for Implementers

- **Paper-Based Verifiable Credential:**

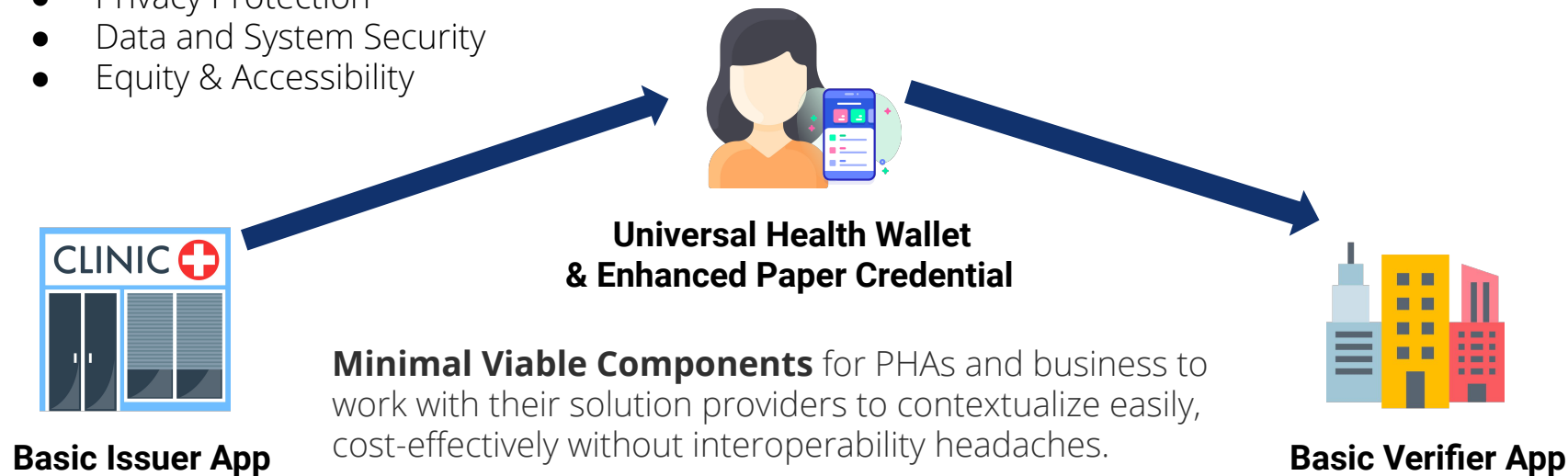
<https://www.lfph.io/wp-content/uploads/2021/03/CCI-Paper-Based-VC-Summit-Summary-Report.pdf>

- **From Closed-Loop Systems and Open World Credentials Exchange:**

https://docs.google.com/document/d/1z2yUFkISoJX2v_u19ytAO2LLSqty787ZgMQzigCtDXE/edit?usp=sharing

LFPH Open Source Strategy for COVID Credentials

- Accelerated Implementation
- Interoperability
- Privacy Protection
- Data and System Security
- Equity & Accessibility



LFPH COVID Credential Projects - Cardea and Medcreds

- [Cardea](#): Launched by [Indicio.Tech](#), Cardea provides an easily verifiable, trustworthy, unalterable proof of health tests or vaccination that can be shared in a privacy-preserving way. Cardea easily integrates with existing health systems to ensure trusted data sources for credentials and uses decentralized identity technology to enable better control of data for individuals. Cardea recently [announced](#) its first reference implementation in partnership with SITA for the Aruba government.
- [MedCreds](#): MedCreds, developed by and contributed to LFPH by [ProofMarket](#), allows medical authorities to directly issue test and vaccination results in the form of verifiable credentials to individuals in a digital wallet. Wallet holders can also request peer-to-peer credentials from others using the MedCreds system. MedCreds had its [initial implementation](#) in the film industry, allowing compliance officers to verify workers' COVID test results with their consent before they come on site.

Project Introductions and Demos

- **Cardea**

Presenter: Ken Ebert, CTO of Indicio.Tech

<http://cardea.app/>

- **Medcreds**

Presenter: Tony Rose, Founder and CEO of ProofMarket

<https://github.com/LFPH-Medcreds>

Q&A and Open Discussions

Contact Information

Jenny Wanger, Director of Programs
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To book a Zoom call: calendly.com/jennywanger

Lucy Yang, Community Director of CCI
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CCI: [Newsletter](#) | [Twitter](#) | [Linkedin](#) | [Medium](#)

Or join slack.lfph.io and send us a message



Join LFPH

Appendices

LFPH Membership

Premier Members



General Members



Associate Members



Overview of LFPH/CCI Goals and Activities

Communications

Public Health Authorities: Help understand the underlying tech, where the standards are going, and what's the minimum-viable way to get interoperable infrastructure implemented

Other COVID Initiatives: Understand each other's work and identify collaboration opportunities.

Technical Communities: Understand technical landscape and provide education to new adopters.

Industries and General Public: Build awareness and trust.

Standardization

Identify interoperability gaps and facilitate the development of a common, open standard for COVID credentials.

Reference Implementation

Define minimal viable components for open source development, and develop/repurpose codebases to provide reference implementation.

Design and Implementation Guidance

Develop implementation guide and provide guidance on governance, architecture, and technology & vendor options.

Other Key Efforts in Standardization

- **Schemas (community-led):**
CCI Use Case Implementation Workstream - Schema Task Force (Created a [repository for schema specifications](#))
- **Credential Format and Signing Protocols (staff-led):**
Verifiable Credentials Flavors Explained ([White Paper](#) & [Infographic](#))
- **Credential Exchanges (staff-led):**
Verifiable Credentials Exchange Protocols Explained White Paper (WIP)

CCI Community Work

- **Response to Ada Lovelace Institute: Vaccine passports and COVID status apps: Call for Public Evidence (submitted)**
<https://docs.google.com/document/d/1ykUUDak47IYkUJeZvxs7FxDyy8bQ48FkF47IxmClppE/edit?usp=sharing>
- **Response to WHO Interim Guidance for Development a Smart Vaccination Certificate (submitted but open for ongoing feedback:**
https://docs.google.com/document/d/1HwWUxMY2EynkWFrINQqh8IF7rE_5aFn74ZreYq0IAYg/edit?usp=sharing
- **Response to Call for Evidence: UK Parliament Covid 19 Vaccine Certification (submitted):**
<https://docs.google.com/document/d/1Dwvccwne731u9rUyNKgn6eV3INnjPwi-6J7dlz-uCcw/edit?usp=sharing>