



Regi-TRUST

A Global Digital Public Infrastructure for
Transparency and Trust in Health
Credentials

June 2025

Accelerated Digitization of Public Health Services

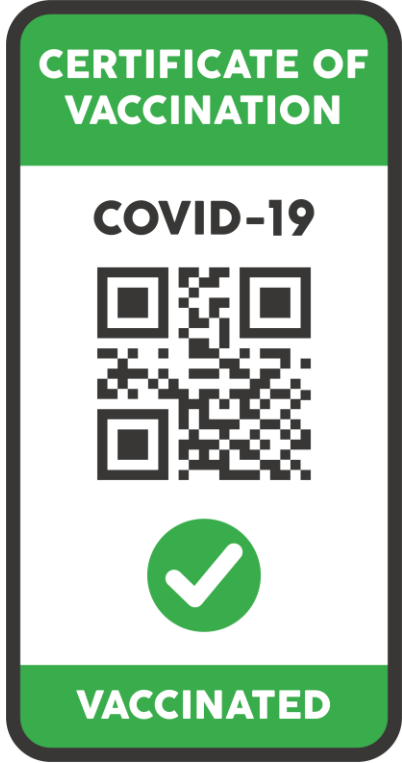
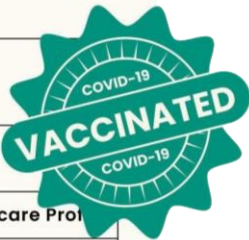
Existing digital infrastructure does not address the increasing complexity of verifying data from sources outside of its ecosystem

COVID-19 Vaccination Record card

First Name _____ Last Name _____

Date of Birth _____ Patient Number _____

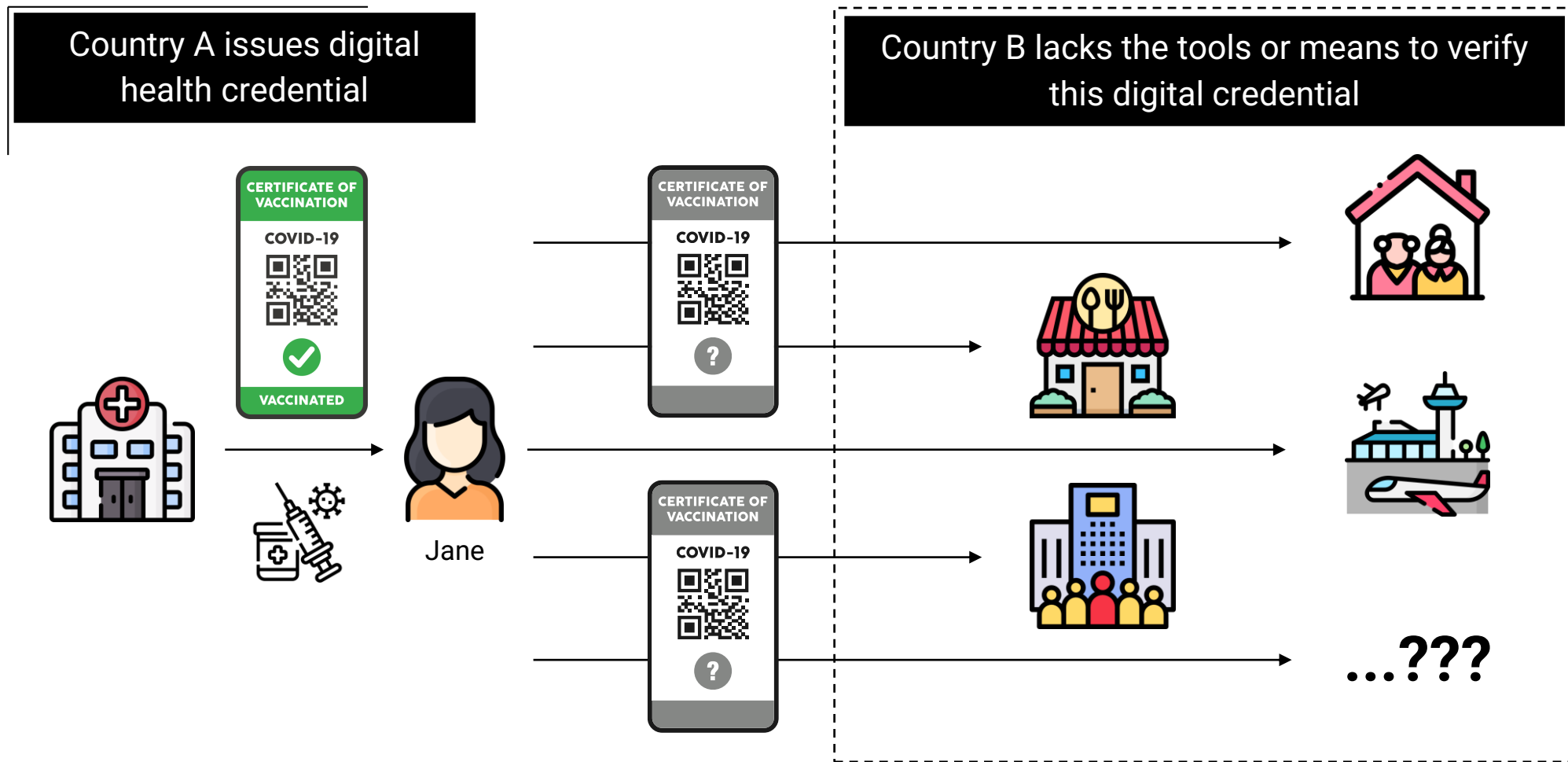
Vaccine	Product Name	Date	Healthcare Provider
1 st Dose COVID-19	_____	MM DD YY	_____
2 nd Dose COVID-19	_____	MM DD YY	_____
Other	_____	MM DD YY	_____
Other	_____	MM DD YY	_____



Paper-based health credentials are easy to fake or can get misplaced. Now certificates are being credentialed using digital technology and modern cryptography.

Ecosystem Thinking is Key to the Success of Digital Services

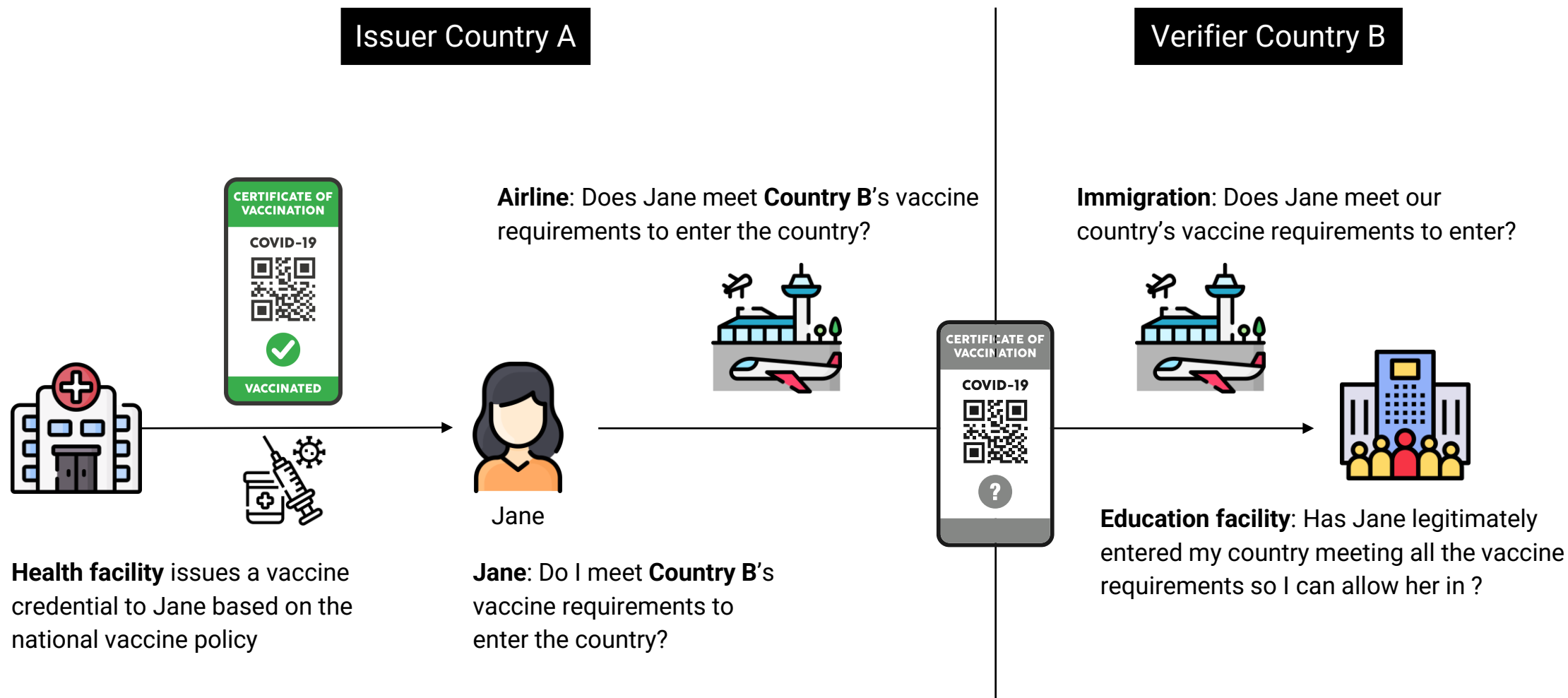
Digital credentialling can be a challenge if the individuals and organizational stakeholders across countries are not able to meaningfully engage



Sharing Credentials Based on Transparency and Trust

Verifying the provenance of digital health certificates as people move within and across borders

Country B needs to trust **Country A's** policy and process for issuing Jane's health credential



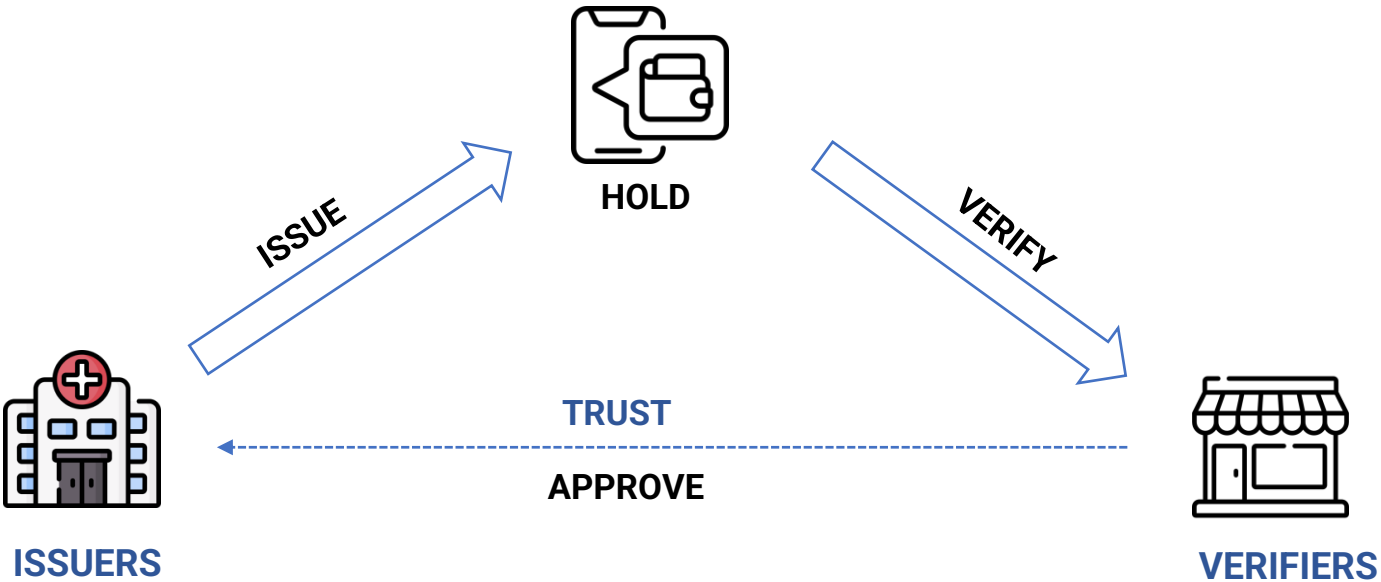
Stakeholder Needs in Digital Health Credential Ecosystems

Connecting the requirements of credential Issuers, Holders and Verifiers



HOLDERS (Individuals or Organizations)

Need more security and convenience than paper-based credentials with a wider network of verifiers and designed for ease of business.



ISSUERS

Governments and organizations want to issue digital health credentials based on WHO standards without compromising on their own governance and policies

VERIFIERS

Countries want to easily discover and validate various digital health credentials and access relevant information about them in a secure and trusted manner.

Regi-TRUST Addresses an Emerging Problem Area

Existing digital systems are ill-equipped to verify external health data in a rapidly evolving digital landscape, with transparency and trust increasingly dependent on new infrastructure.

Pre Pandemic Centralized Approach

- Slow-paced digitization and lack of incentives and networks for trusted, reusable digital credentials
- Modern cryptography not as widely understood or used
- Manual, cumbersome, and costly processes of building network of digital services using highly centralized approaches that are hard to scale

New Decentralized World of Trust Ecosystems

- Fast-paced digitization initially driven by local needs
- Modern cryptography has become better understood and cheaper to implement
- Decentralized tech that can work with existing centralized approaches to support new digital growth patterns

The emerging problem space

TRANSPARENCY

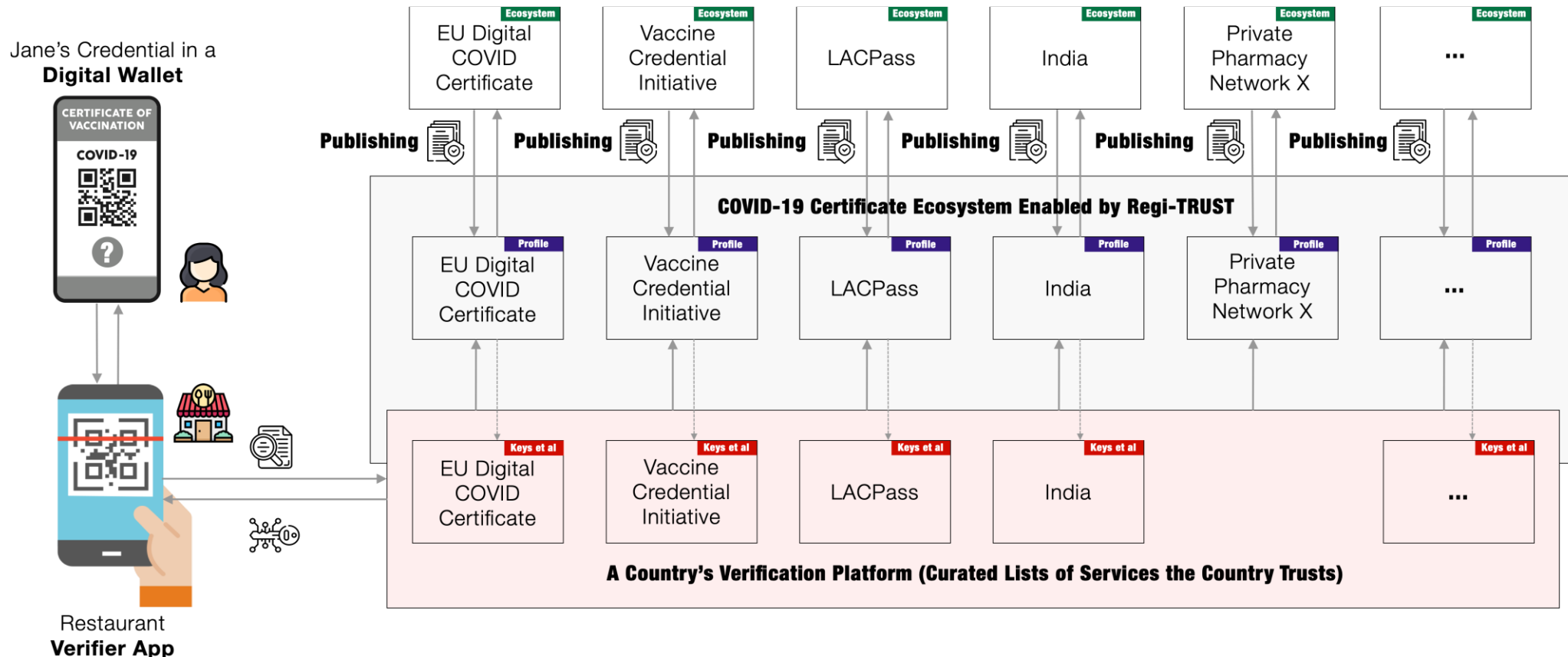
Enable countries to **discover each others digital health credentialling services** - including their technical specifications and governance mechanisms, and meaningfully engage with them

TRUST

Enable countries to evaluate the **trustworthiness of each others digital health credentialling services** and curate trusted services in a standardized way to approve them in their jurisdictions

Regi-TRUST- Digital Trust Infrastructure for Countries

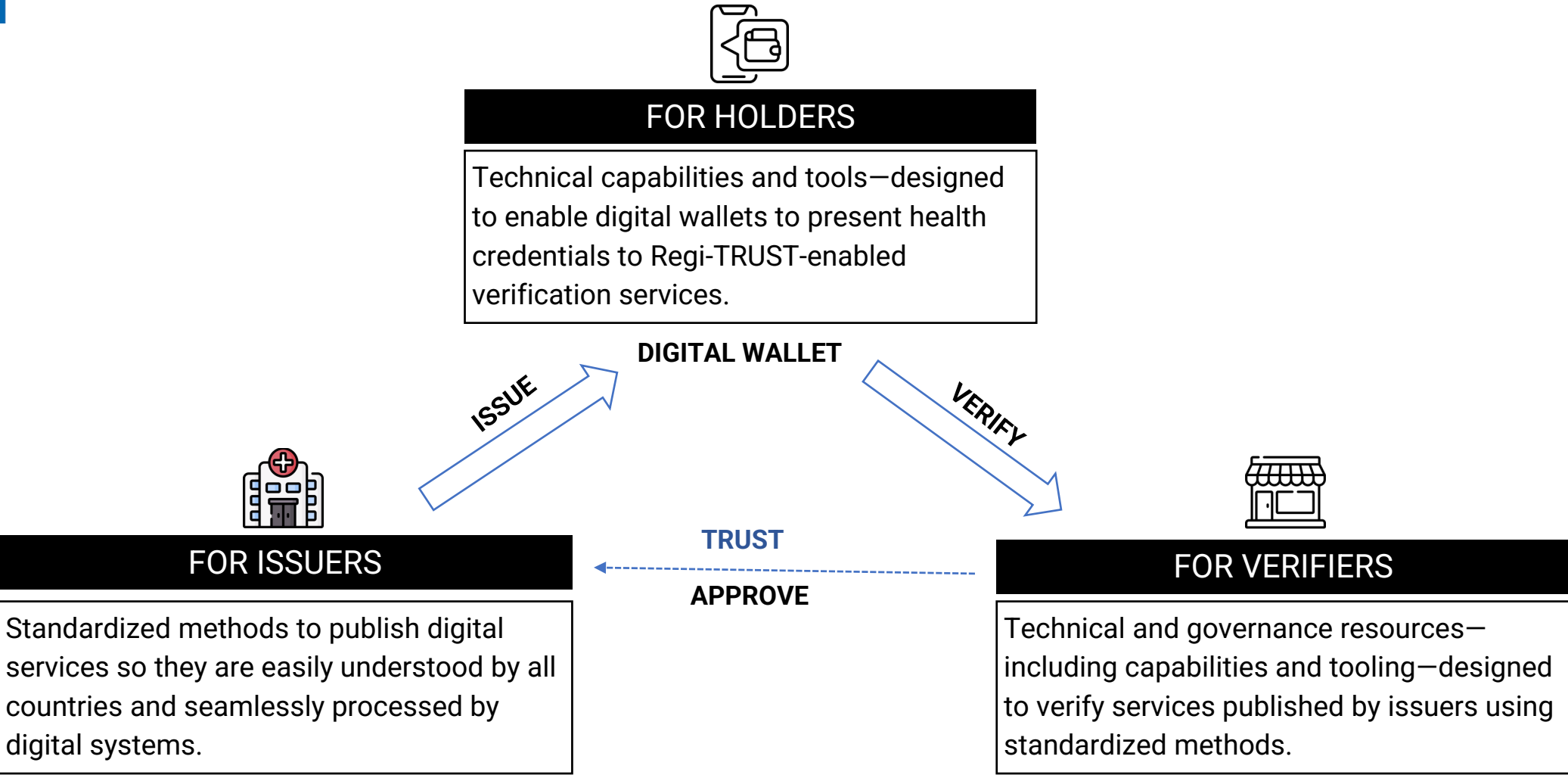
Developed by UNDP as a scalable trust model that enables countries to issue and verify digital health credentials under different technical and policy frameworks in a transparent and trusted manner worldwide



RegiTrust is an open, interoperable platform that enables decentralized service delivery, reduce costs through shared infrastructure, and support global data access without complex governance.

Stakeholder Needs in Digital Health Credential Ecosystems

Regi-TRUST provides foundational infrastructure that empowers ecosystem participants to engage effectively and seamlessly—regardless of the platforms they use



RegiTrust Modules Are Tested and Production-Ready

A country can implement Regi-TRUST issuer modules to make their digital health credentials discoverable globally

Credential Service Publishing Module

- **Templates and tooling** to structure technical and governance information of digital health credential services in a standardized way
- Countries can **publish** their digital health credentials in a secure manner on a national domain
- **Integrate** existing systems and data aggregation tools to streamline publishing process



Canada Health Vaccines and Immunization

Service Details

Name: Canada Health Vaccines and Immunization

Service Type: Vaccination

Issued Certificate Types: SHC

Digital Identity: 00:c9:22:69:31:8a:d6:6c:ea:da:c3:

Supply Endpoint: <https://www.canada.ca/en/public-health/services/vaccine-supply.html>

Definition URI: <https://www.canada.ca/en/public-health/services/immunization-vaccines.html>

Governance URI: <https://www.canada.ca/en/public-health.html>

Business Rules URI: <https://www.canada.ca/en/public-health/services/canadian-immunization-guide.html>

Service Operations Agent

Name: Nancy Dunn

Electronic Address: nancy@phc.ca

Street Address: 123 ABC Street

City: Toronto

State/Province: Ontario

Postal Code: 123456

Country: Canada

Show 10 entries
Search:

Trusted Service Provider	Version Number	Last Updated
RSUPN Dr. Cipto Mangunkusumo	2	02/05/25 - 07:02 PM
Kaiser Permanente California	6	02/05/25 - 05:21 PM
Test AgencyName	2	02/05/25 - 01:16 AM
Test AgencyName	3	02/05/25 - 12:48 AM
Test AgencyName	2	02/05/25 - 12:20 AM
UC TEST3 MEDICAL CENTER	2	02/04/25 - 11:37 PM
UC TEST2 MEDICAL CENTER	3	02/04/25 - 08:41 PM
UC TEST MEDICAL CENTER	3	02/04/25 - 07:38 PM
University of California Santa Barbara	3	02/04/25 - 06:46 PM
University of California San Francisco Medical Center	2	02/04/25 - 01:27 PM

Showing 1 to 10 of 15 entries
Previous
1
2
Next



- Standardized **templates and tooling** to create a single- or multi-layer directory of digital health credentials issued
- **Content and access management** tools for countries to update technical and governance information of published digital health credentials
- Countries can easily **discover and validate** health credentials and access relevant service information.

Trusted Credentials Ecosystem Module

First Use Case: Global Digital Health Certification Network

WHO is building on the COVID infrastructures and experience to support the emergence of digital health credential services across the world, leveraging Regi-TRUST

Source: [WHO website](#)

List of participants currently onboarding or onboarded to GDHCN

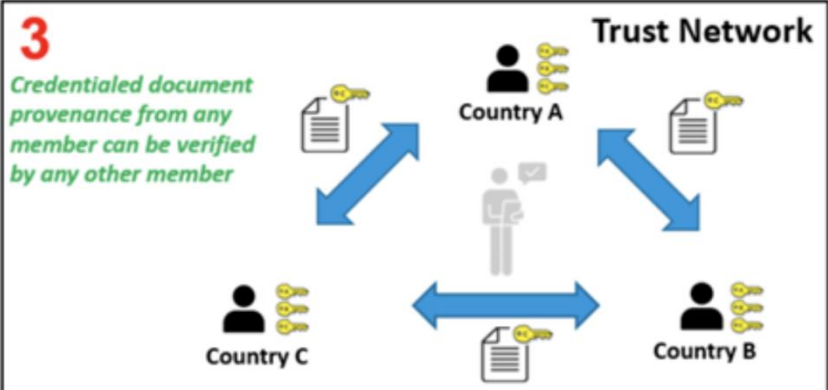
Region of the Americas	European Region		African Region	Western Pacific Region
<ol style="list-style-type: none"> 1. Bahamas 2. Bolivia 3. Belize 4. Brazil 5. Canada 6. Chile 7. Ecuador 8. Honduras 9. Paraguay 10. Suriname 11. Uruguay 12. El Salvador 13. Panama 14. Guatemala 15. Argentina 16. Colombia 17. Costa Rica 18. Peru 19. British Virgin Islands 20. Barbados 21. Cuba 	<ol style="list-style-type: none"> 1. Belgium 2. Croatia 3. Czech Republic 4. Cyprus 5. Estonia 6. Finland 7. France 8. Greece 9. Israel 10. Latvia 11. Lithuania 12. Malta 13. Netherlands 14. San Marino 15. Slovakia 16. Spain 17. Sweden 18. Ukraine 19. United Kingdom 20. Iceland 21. Slovenia 22. Portugal 23. Georgia 	<ol style="list-style-type: none"> 24. Poland 25. Kyrgyzstan 26. Faroe Islands 27. Montenegro 28. Ireland 29. Andorra 30. Monaco 31. Türkiye 32. North Macedonia 33. Moldova 34. Armenia 35. Albania 36. Luxembourg 37. Hungary 	<ol style="list-style-type: none"> 1. Benin 2. Zimbabwe 3. Madagascar 4. Burkina Faso 5. Tanzania 6. Burundi 7. Togo 8. Seychelles 	<ol style="list-style-type: none"> 1. New Zealand 2. Singapore 3. Japan 4. Australia 5. Mongolia 6. Malaysia 7. Philippines
			Eastern Mediterranean Region	South East Asia Region
			<ol style="list-style-type: none"> 1. Morocco 2. Iraq 3. Qatar 4. Oman 5. Kingdom of Saudi Arabia 	<ol style="list-style-type: none"> 1. Indonesia 2. Thailand 3. Sri Lanka



X = In progress. Currently going through technical preparation, testing and/or pending Letter of Application

X = Onboarding completed. Testing completed and Letter of Application received.

81 participants in total as of 5 Feb 2025



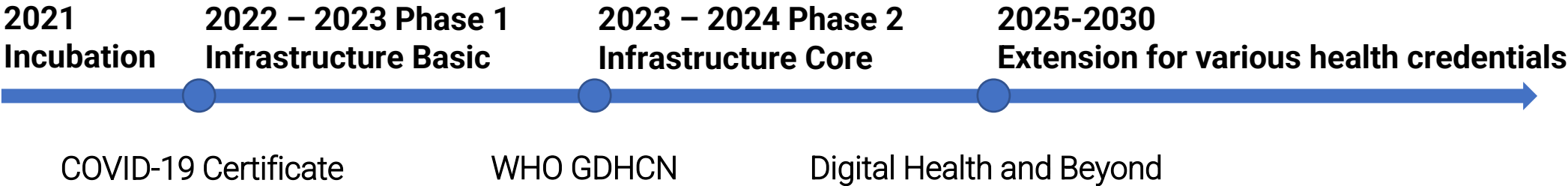
Regi-TRUST will enable all GDHCN participants to securely publish their health credential services, including information such as cryptographic keys and verification rules, onto GDHCN’s Trust Network and amplify trust building and verification capabilities GDHCN can offer to participants.

Global Digital Health Certification Network

What's Next: A Complete Suite of Open-Source Modules

UNDP is extending Regi-TRUST to provide verification and digital wallet capabilities as well as governance support to make transparency and trust easier to achieve

Verification Module	Digital Wallet Module	Governance Module
<ul style="list-style-type: none"> • Verifier APIs that are integrated with major trust list implementations and support verification of Regi-TRUST-enabled digital services • Tooling to configure verification services and build customized verification APIs/platform • A sample and customizable verifier application 	<ul style="list-style-type: none"> • A sample and customizable digital health wallet • Develop functionalities that support selective disclosure of health data and other privacy needs • Develop functionalities that give user abilities to self-verify a health credential based on published rules before travel 	<ul style="list-style-type: none"> • A Regi-TRUST governance and operational framework (template) for network-of-networks implementers • Case studies of trust networks that are implementing or may implement Regi-TRUST • UN practices that can be leveraged by trust networks implementing Regi-TRUST



Regi-TRUST Future-Proofed Digital Health Infrastructure

Aims at establishing new digital health standard for transparency and trust



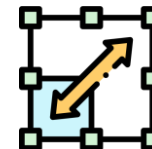
Open, Agile and Affordable

Leverages open standards and widely-accessible Internet infrastructure, and providing 'plug-and-play' functionality



Policy Independence

Allows countries, jurisdictions, and private networks to keep, shape, and protect policies and processes of their own



Inherently Scalable

Using scalable design for future pandemics and crises, and other health use-cases requiring transparency and trust



Advances Best-Practices

Built on open source TRust mAnagement Infrastructure (TRAIN) project which is funded by EU



Holistic Approach: Tech + Policy

Includes policy and governance guidance and structures drawn from UNDP and partners' expertise



Proven global trust architecture

Enabling interoperability between different digital health credentials, regardless of location or definition

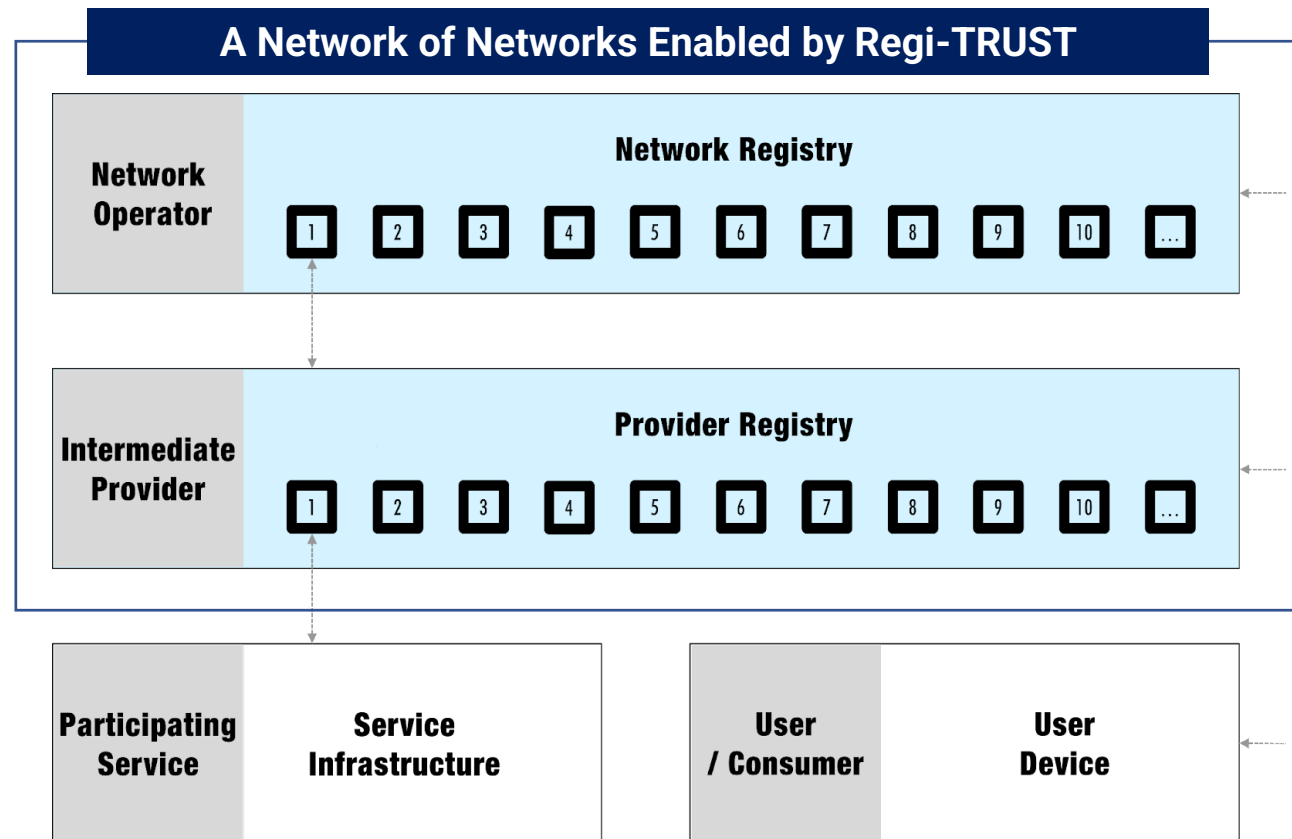
Appendix 1: Regi-TRUST Operational Framework

Network Registry is the highest level network of trusted digital service providers who participate in the publishing and verification mechanism run by a **Network Operator** implementing Regi-TRUST.

Intermediate Providers are the trusted digital service providers directly participating in the Network Registry. They may have their own list of trusted digital services, and as such can create their own **Provider Registry** by implementing Regi-TRUST as the Intermediate Level.

Participating Service is the trusted digital service provider on the Provider Registry that leverages its own **Service Infrastructure**.

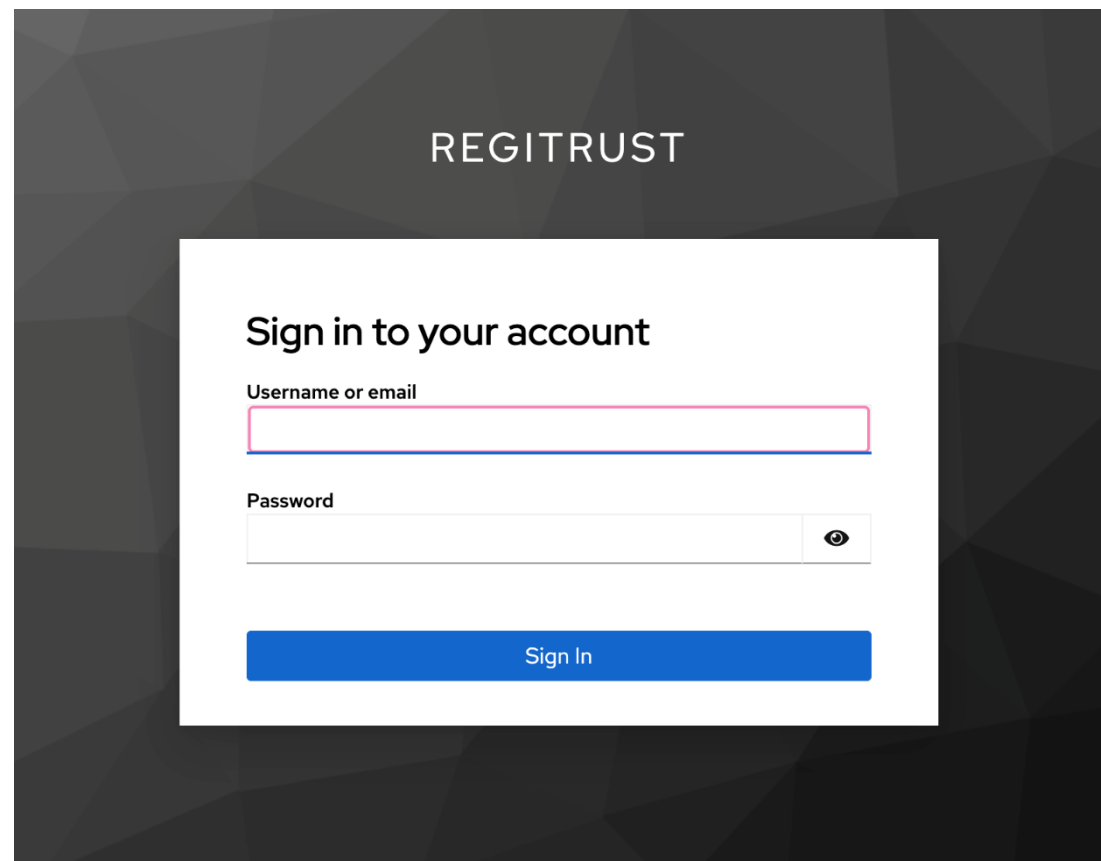
User / Consumer refers to any entity using the Network Registry for discovery and validation of trusted digital services. They would need to have some kind of **User Device** (e.g. mobile phone, laptop).



Appendix 2: Regi-TRUST User Roles in GDHCN Context

Different User Roles have been built:

1. GDHCN Network Administrator (WHO): Configure the entire GDHCN Trust Network
2. GDHCN Applicant Clerk (Member State): Submit an enrolment request (no account needed)
3. GDHCN Application Reviewer (WHO): Review and approve a Member State's or others' enrolment request so they can start publishing services onto the Trust Network
4. GDHCN Participant Clerk (Member State): Prepare submission of digital health certificate service(s) to GDHCN Trust Network
5. GDHCN Participant Supervisor (Member State) : Review Clerk submissions before publishing to the GDHCN Trust Network

The image shows a screenshot of the RegiTRUST sign-in interface. The background is dark grey with a geometric pattern. At the top, the word 'REGITRUST' is written in white capital letters. Below it, a white rectangular box contains the sign-in form. The form has the title 'Sign in to your account' in bold. There are two input fields: 'Username or email' and 'Password'. The 'Username or email' field has a pink border, and the 'Password' field has a grey border and a toggle icon (an eye) to its right. Below the input fields is a blue button with the text 'Sign In' in white.

Appendix 3: Regi-TRUST Service Publishing Module

Home

Network Entries

Submit Network Entry

My Submissions

Logout

Network Entry Submission

1

Participating Entity Information

2

Submitter Contact Information

3

Service Information

4

Complete

Entity Name *

Legal Name *

Entity Role ?
☒ Issuer (TSP)
☐ Registry Administrator (T)

Entity Trust Scheme Name

Network Entry Submission

1

Participating Entity Information

2

Submitter Contact Information

3

Service Information

4

Complete

Submitter Name *

Electronic Address *

Street Address 1 *

Street Address 2

Service Information

1

Participating Entity Information

2

Submitter Contact Information

3

Service Information

[Back to services](#)

Service Name *

Service Type ?
☒ Vaccination
☐ Test
☐ Recovery
☐ Exemption
☐ Travel Pass

Service Issued Credential Types ?

Network Entry

CURRENT VERSION: 2

View Version History

Participating Entity Information

Organization Details
Name: Public Health Agency of Canada
Legal Name: Public Health Agency of Canada
Role: Issuer
Legal Basis: Public Health Agency of Canada
Information URL: <https://www.canada.ca/en/public-health.html>
Entity Identifiers: Canadian Government Agency Identifier: PHAC
Certifications: ISO: 9001:2008
Keywords:

Organization Address
Electronic Address: info@phac.gc.ca
Street Address: 123 ABC Street
City: Toronto
State/Province: Ontario
Postal Code: 123456
Country: Canada

Submitter

Contact Information
Name: John Doe
Electronic Address: john@phc.ca
Street Address: 123 ABC Street
City: Toronto
State/Province: Ontario
Postal Code: 123456
Country: Canada

Services

Canada Health Vaccines and Immunization

Service Details
Name: Canada Health Vaccines and Immunization
Service Type: Vaccination
Issued Certificate Types: SHC
Digital Identity: 00:c9:22:69:31:8a:d6:6c:ea:dac:3
Supply Endpoint: <https://www.canada.ca/en/public-health/services/vaccine-supply.html>
Definition URI: <https://www.canada.ca/en/public-health/services/immunization-vaccines.html>
Governance URI: <https://www.canada.ca/en/public-health.html>
Business Rules URI: <https://www.canada.ca/en/public-health/services/canadian-immunization-guide.html>

Service Operations Agent
Name: Nancy Dunn
Electronic Address: nancy@phc.ca
Street Address: 123 ABC Street
City: Toronto
State/Province: Ontario
Postal Code: 123456
Country: Canada

Version History

Show 10 entries

Search:

Version	Last Updated	Actions
2	01/29/25 - 05:25 AM	View Version
1	01/09/25 - 04:49 PM	View Version

Showing 1 to 2 of 2 entries

Previous 1 Next

Appendix 4: Regi-TRUST Trusted Ecosystem Module

Network Entries

CURRENT VERSION: 40 | [View Trustlist Framework](#) | [View Version History](#)

Show entries

Trusted Service Provider	Version Number
University of California Davis Medical Center	2
The University of Chicago Medicine	3
Public Health Agency of Canada	2
Test MOH Trinidad	3
Premier Jatinegara Hospital	

Showing 11 to 15 of 15 entries

Trust Service Framework

CURRENT VERSION: 40

Framework Details

Trust List Version 40

Trust List Type <https://test.com>

Framework Name testFW.zm.regitrust.axyom.co

Operator Name Federation 1

Operator Address Gedung Kementerian Kesehatan, Jakarta22, 10110,

Scheme Information URI <https://www.kemkes.go.id/haj-health-credentials>

Community Rules URI <https://www.kemkes.go.id/haj-health-rules>

Territory ID

Policy or Legal Notice This trust list is regulated by the legal framework established by the Indonesian Government.

Distribution Points <https://www.kemkes.go.id/haj-health-rules>

Extensions (TBD) <https://www.kemkes.go.id/haj-health-rules>

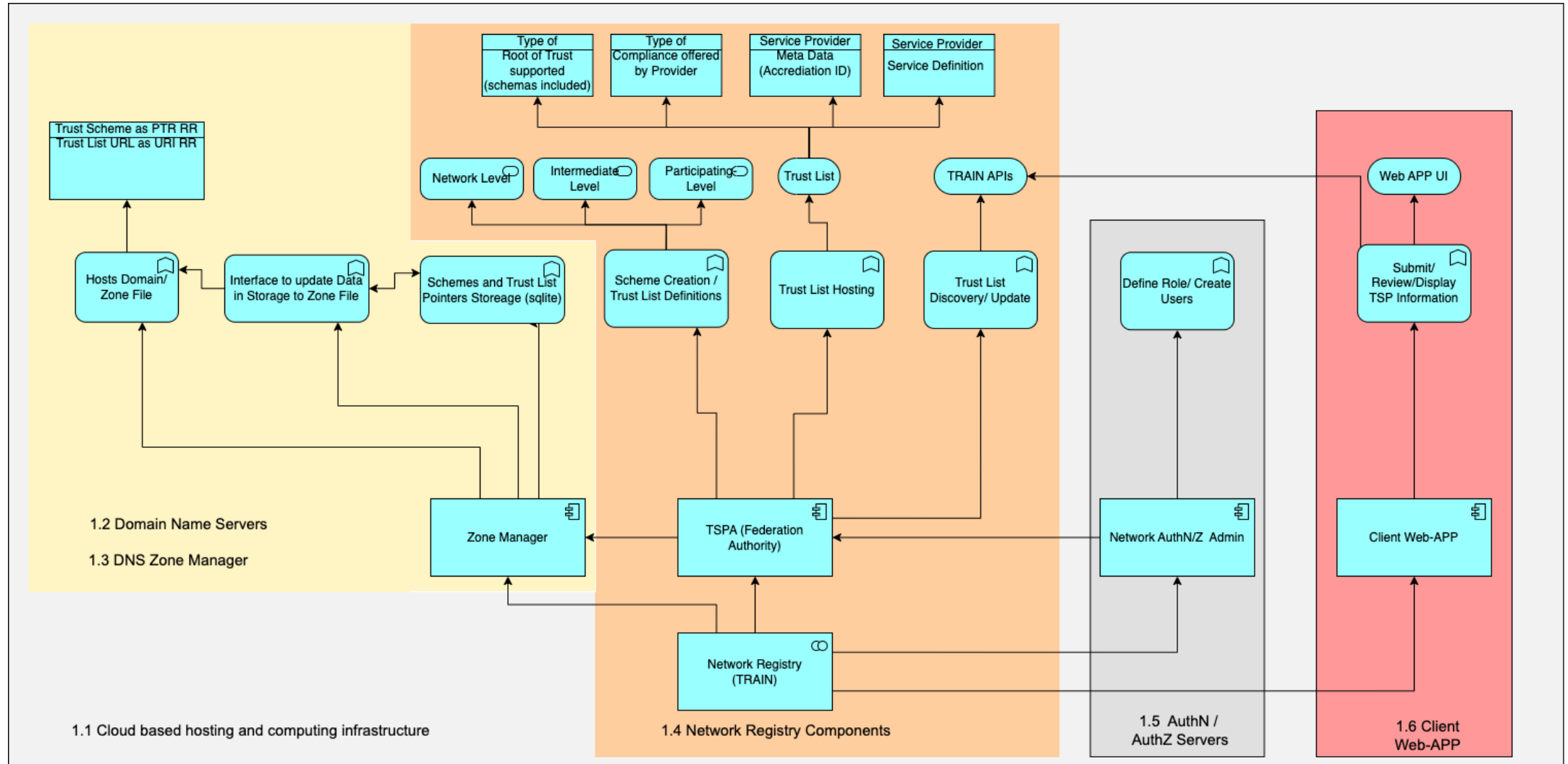
Pointers to any Other Trust List

Select A Trust List Version to View

Show entries Search:

Version	Last Updated	Actions
40	02/05/25 - 07:02 PM	View Version
39	02/05/25 - 05:21 PM	View Version
38	02/05/25 - 05:21 PM	View Version
37	02/05/25 - 01:16 AM	View Version
36	02/05/25 - 01:11 AM	View Version
35	02/05/25 - 12:48 AM	View Version
34	02/05/25 - 12:29 AM	View Version
33	02/05/25 - 12:28 AM	View Version
32	02/05/25 - 12:20 AM	View Version
31	02/05/25 - 12:10 AM	View Version

Showing 1 to 10 of 40 entries Previous 1 2 3 4 Next



Appendix 6: Regi-TRUST Use of DNS/DNSSEC

