

# Training Cycles: LACPASS

Under the context of the Public Good (BPR) RG-T3769: "Digital Transformation in Health to Mitigate the Effects of COVID-19 in Latin America and the Caribbean", several training instances have been structured in workshop format, which are aligned with the following expected results of the BPR:

- Develop a scalable process of learning and knowledge generation around data standards and confidence frameworks required by the technical teams of the countries, through the development of guides, workshops, tests, etc.
- Implement a first proof of concept based on the European model (Green Pass ICAO PKI), using the cross-border signature definitions of the GEALC Network.
- Implement a second proof of concept based on Verifiable Credentials (VCI) and decentralized identifiers, taking as a reference the specifications of the LAC CHAIN platform.

This first cycle of courses is mainly focused on digital signature, necessary for the validity of vaccination certificates issued at inter-regional level. Additionally, some basic aspects associated with how to represent the information by means of JSON objects, to be digitally signed, will be reviewed.

These workshops are aimed primarily at the technical teams representing each participating country, but will also be open to all other BPR stakeholders and observers.

Figure 01 below represents the complete schedule of macro-activities to be carried out until the end of the year associated with the BPR:

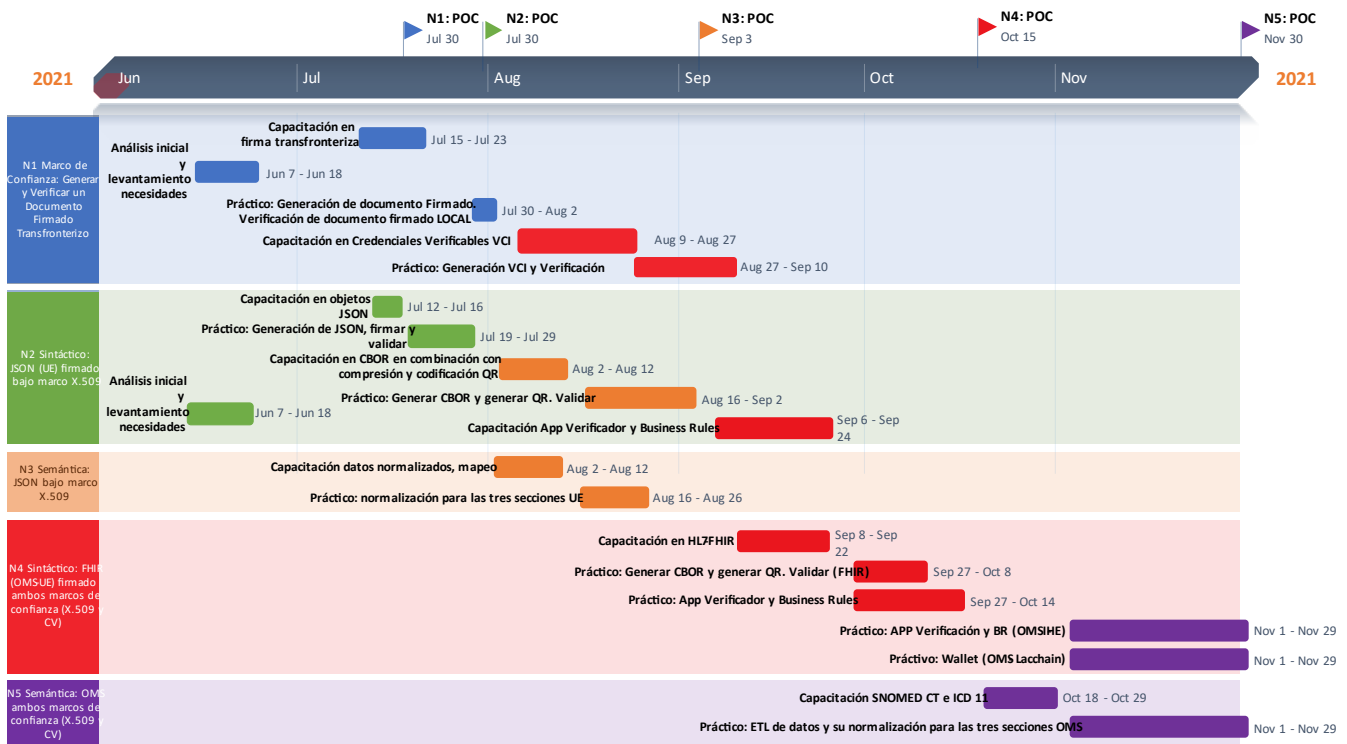


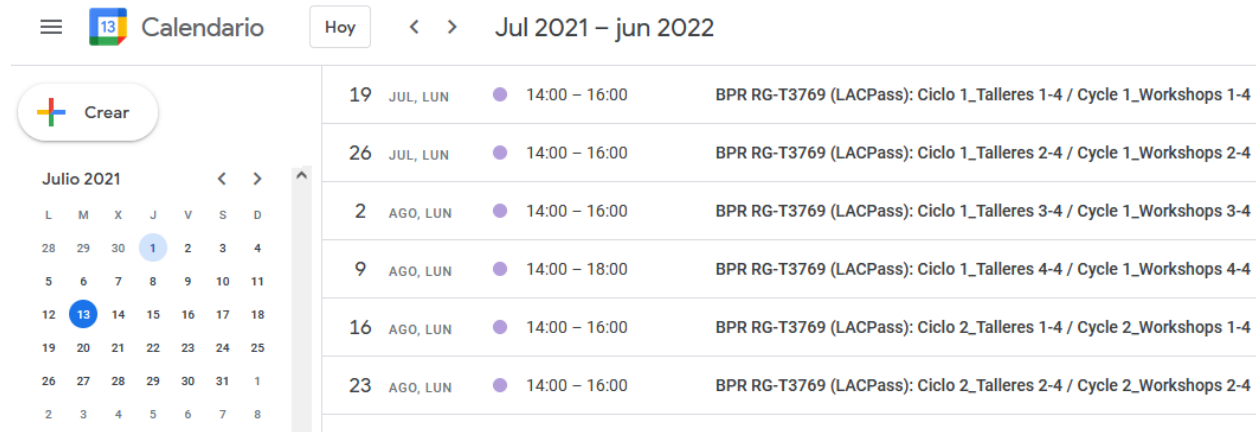
Figure 01: Planning component 1 BPR

## Calendar of meetings and workshops:

In order to simplify and keep always updated the information related to the agendas and links to the workshops, a public calendar called: BPR RG-T3769 (LACPass) has been made available at the following link:

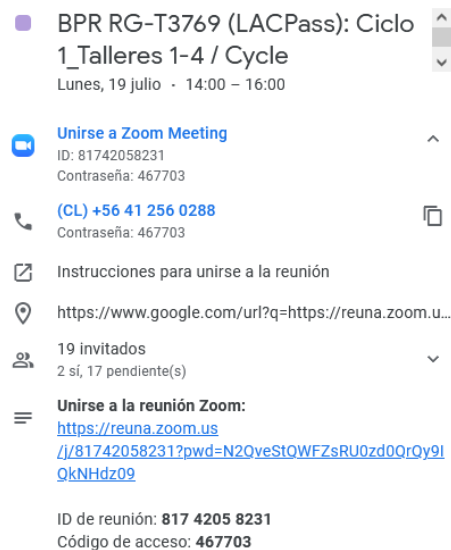
<https://calendar.google.com/calendar/u/0?cid=Y185bWZlajRyOWY5dXY4NmRjZW5maDFyOXFoNEBncm91cC5jYWxlbnRhci5nb29nbGUuY29t>

Figure 02 below shows the agenda generated for each workshop available in the public calendar:



**Figure 02: Public calendar for BPR RG-T3769 (LACPass) workshops, "scheduling" view.**

Figure 03 below shows how in each scheduled activity it is possible to access the details of the appointment, links and connection instructions are included, as well as a summary of the topics to be reviewed by session.



**Figure 03: Detail of scheduled activity in BPR calendar RG-T3769 (LACPass).**

## Cycle 1: Support in training for the generation of digital vaccination certificates

Dates: From Monday, July 19 to August 9, 2021

Audience: BPR technical teams and the LAC health IT community.

### Background Cycle 1:

In the framework of the Regional Public Good (BPR) RG-T3769: "Digital Transformation in Health to Mitigate the Effects of COVID-19 in Latin America and the Caribbean", and in articulation with the BPR RG-T3314 for the strengthening of cross-border electronic transactions in the region, the IDB proposes to support the region for the development of a digital vaccination certificate.

Using as a reference the success case of the European Union's Green Certificate, which presents a model accepted by the World Health Organization and defines the transactional processes, technologies, organizational roles and models of technical, regulatory and institutional trust, the following training is proposed for the region with the purpose of carrying out proofs of concept to replicate the European model in the region.

## Course 1: Electronic Signature, the technical vision

**Duration 2hrs**

**Date: July 19, 2021; 14:00-16:00 (GMT -04:00)**

**Objective:** The participant will be left with the main concepts of what an electronic signature is from a technical point of view.

Topics:

- Fundamentals of cryptography and signature algorithms
- What is a PKI and how does it work?
- Digital certificates
- Main uses

**Link to Zoom Meeting:**

<https://reuna.zoom.us/j/81742058231?pwd=N2QveStQWFZsRU0zd0QrQy9lQkNHdz09>

Meeting ID: 817 4205 8231

Access code: 467703

## Course 2: Electronic Signature, the normative vision

**Duration: 2hrs**

**Date: July 26, 2021; 14:00 - 16:00 (GMT -04:00)**

**Objective:** The participant will be left with the main concepts of the implications of electronic signatures from a regulatory point of view.

Topics:

- What are the legal implications of signing a document?
- How was it legislated in the digital world?
- What are the types of certificates? What do they represent?
- Case studies

**Link to Zoom meeting:**

<https://reuna.zoom.us/j/81657717211?pwd=QzFvV0tYZW85UFpwK2FKekFub1Npdz09>

Meeting ID: 816 5771 7211

Access code: 742083

## Course 3: Data model

**Duration: 2hrs**

**Date: Monday, August 02, 2021; 14:00 - 16:00 (GMT -04:00)**

**Objective:** The participant will be left with the main concepts of what a JSON object is and what its properties are from a technical point of view.

Topics:

- JSON standard.
- Characteristics and uses. Advantages and disadvantages.
- JSON Minimum DDCC/GreenPass
- Example of interoperability through CRUD operations.

**Link to Zoom meeting:**

<https://reuna.zoom.us/j/82206763916?pwd=OWx6cXFXRlJPMWRyZnF4L2MwSXRJZz09>

Meeting ID: 822 0676 3916

Access code: 874711

## Course 4: The use case of cross-border electronic signatures for the EU Green Certificate

**Duration: 4hrs**

**Availability date: Monday, August 09, 2021; 14:00 - 18:00 (GMT -04:00)**

**Objective:** The participant will analyze the use of electronic signatures for the EU Green Certificate and an implementation exercise will be carried out for the region using the cross-border signature models.

Topics:

- Regulatory and institutional context in Europe
- Electronic signature algorithms, particular case COSE
- Vaccine Certificate Demo, Issuance and Verification: LAC Countries (using EU libraries)

**Link to Zoom meeting:**

<https://reuna.zoom.us/j/83661544114?pwd=YVhVY0Z5dG1qTEhHbzNOeWtFVVIHUT09>

Meeting ID: 836 6154 4114

Access code: 464038

## Cycle 2: Support in training for the generation of digital vaccination certificates

Dates: From August 16 to August 23, 2021

Audience: BPR technical teams and the LAC health IT community.

### Background Cycle 2:

In the framework of the Regional Public Good (BPR) RG-T3769: "Digital Transformation in Health to Mitigate the Effects of COVID-19 in Latin America and the Caribbean", and in articulation with the BPR RG-T3314 for the strengthening of cross-border electronic transactions in the region, the IDB proposes to support the region for the development of a digital vaccination certificate.

### Course 5: Complementary emerging tools and standards for a new generation of digital certificates, part 1.

**Duration: 2hrs**

**Date: Monday, August 16, 2021; 14:00 - 16:00 (GMT -04:00)**

**Objective:** The participant will learn about the international efforts that have been developed to enable trust frameworks, standards and technologies necessary for a new generation of verifiable digital certificates.

#### Topics:

Decentralized trust registries (smart contract exploration, trust frameworks and associated regulation)

- Digital Credentials (W3C Verifiable Credentials standard applied to the WHO data model, Digital Green Certificate (Green Pass), VCI and Good Health Pass)
- Digital wallets (concept, sovereignty, data protection, selective disclosures and ZKP, receipt and presentation of credentials)
- Demo:
  - Deployment and interaction with a smart contract operating as a PKD
  - Deployment and interaction with a smart contract operating as a Trusted List
  - Certificate issuance (standard Verifiable Credential with European data format) from digital issuance platform to wallet
  - Certificate presentation from wallet via QR
  - Verification of certificate by scanning the QR code

#### Link to Zoom Meeting:

<https://reuna.zoom.us/j/87923730818?pwd=L0tIV2VseFA4Y2xTUctIR0tnQkY1QT09>

Meeting ID: 879 2373 0818

Access code: 418093

## Course 6: Complementary emerging tools and standards for a new generation of digital certificates, part 2.

**Duration: 2hrs**

**Date: Monday, August 23, 2021; 14:00 - 16:00 (GMT -04:00)**

**Objective:** The participant will learn about the international efforts that have been developed to enable trust frameworks, standards and technologies necessary for a new generation of verifiable digital certificates.

**Topics:**

- Decentralized trust registries (smart contract exploration, trust frameworks and associated regulation)
- Digital Credentials (W3C Verifiable Credentials standard applied to the WHO data model, Digital Green Certificate (Green Pass), VCI and Good Health Pass)
- Digital wallets (concept, sovereignty, data protection, selective disclosures and ZKP, receipt and presentation of credentials)
- Demo:
  - Deployment and interaction with a smart contract operating as a PKD
  - Deployment and interaction with a smart contract operating as a Trusted List
  - Certificate issuance (Verifiable Credential standard with European data format) from digital issuance platform to wallet
  - Certificate presentation from wallet via QR
  - Verification of certificate by scanning the QR code

**Link to Zoom meeting:**

<https://reuna.zoom.us/j/85783577747?pwd=T0NIQ2hZNCt5alVheVU2TnJyZTdQUt09>

Meeting ID: 857 8357 7747

Access code: 120819