

## Toppan Gravity Digital COVID Certificate (DCC) Solution

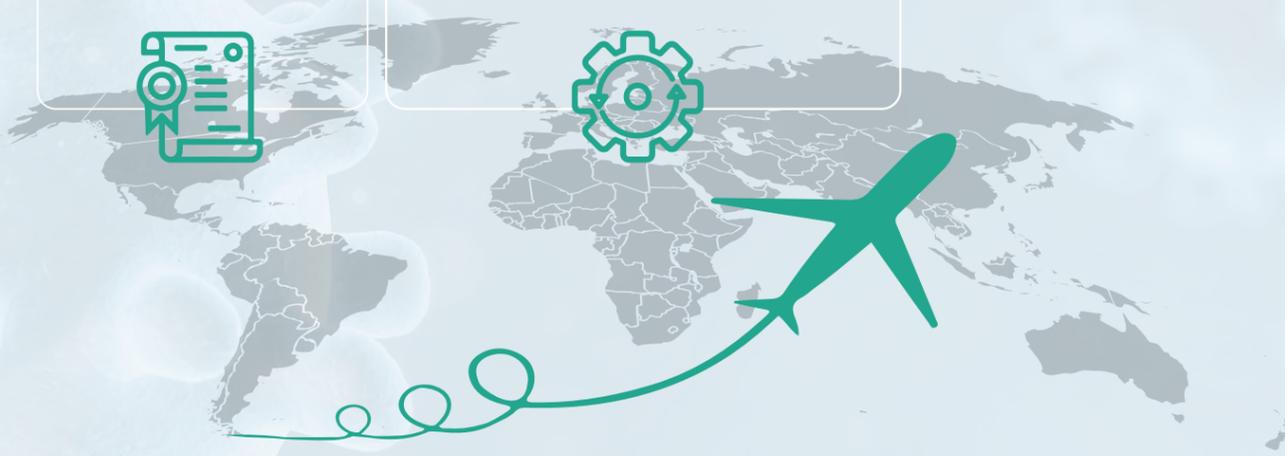
The **current health crisis** has shown that outdated, unsecure vaccine management systems and affiliated documents such as the "Yellow Card" needs to be improved and modernized.

The **European COVID-19 travel certificate**, has been introduced in July 2021. Its goal is to restore freedom of travel, lift restrictions as entry bans, quarantine obligation, and testing.



Across the globe, several **health passport & certificate initiatives** from isolated Governments, private sectors or organizations have been proposed.

The system has quickly become a **worldwide success**. It is today the only system operational and interoperable at international level. Already over **40 countries are connected to the EU system**, and growing.



## Solution Benefits



■ **Solution already implemented and running** in the EU

■ Toppan Gravity will support any government to comply with the EU standards, so that your country becomes an official 'third party' member. This means that the Covid Certificate issued by your country will be treated as equivalent the **EU DCC**.



■ **End-to-end solution**, including the trust framework, QR code preparation and issuance, upgrade of existing certificate Solution to the EU Standards



■ **Modular approach**, re-use and optimization of existing infrastructure (if possible).



■ **Mobile and physical credential support.**

Toppan Gravity can offer physical Covid Health cards, embedding the QR Code with long-lasting, lab certified Antimicrobial protection.

## Reliable Services

### Our Services Includes



The set-up of your Trust Framework, according to EU regulations, best practices and security requirements



The Third Country EU Digital COVID certificate Equivalence Decision procedure and the connection to a global or local public key directory (EU-gateway)



Installation and management of a Document Signer to sign the COVID certificate



QR code preparation and COVID Certificate issuance via API



Certificate revocation services

The information contained in the **QR code** of the EU-interoperable COVID-19 health certificates is **digitally signed**, proving its authenticity, and can be verified via the EU Gateway.

Its underlying trust framework is an **ICAO compliant Public Key Infrastructure (PKI)**, the core element to digital signature today.

Such Infrastructure is already current like the one applied to travel documents (eIDs and ePassports).

## Solution Process



A database is established to collect, store and manage COVID-related data:

Patient Data

Vaccination

PCR Test

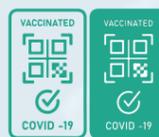
Proof of recovery



Collected data is matched with the official database, like the civil registry, to match patient and citizen information



A digitally signed QR code is generated according to EU standards.



The Covid Certificate document, digital and / or physical, can be issued by Toppan Gravity

