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EHDS provides a new framework for collaboration on eHealth



Pilot giving patients access to their health data and developing eID wallet use

Expansion of coverage: 29 EU and EEA countr connecting in the next years



Expansion of services: adding Lab results, Medical images, Hospital discharge letters, Vaccination Card, European Social Security Pass, etc.



Some common goals of MyHealth@EU



To support continuity of care when people exercise their right of freedom of movement



To provide appropriate and usable tools to health professionals and to patients



To ensure data protection and security



To ensure stability and further development of services, and make people aware of them





What is the scale?

EU mobile citizens of working age (20-64) by country of citizenship, % of their home-country resident population





https://ec.europa.eu/eurostat/statistics-explained/index.php?title=EU citizens living in another Member State - statistical overview

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Services that are live:

- PS-A in CZ, ES, HR, MT, PT (5)
- PS-B in CZ, ES, FR, HR, LU, MT, NL (7)
- eP-A in EE, FI, HR, PT (4)
- eP-B in EE, FI, HR, PT (4)

Grants to join:

- PS-A in BG, CY, EE, EL, FI, IE, IT, LT, LU, LV, SI, SK (+12)
- PS-B in BG, CY, EE, EL, FI, HU, IE, IT, LT, LV, SI (+11)
- eP-A in BG, CY, CZ, EL, ES, HU, IE, IT, LT, LV, PL, SE, SI (+13)
- eP-B in BG, CY, CZ, EL, ES, HU, IE, IT, LT, LV, PL, SE, SI (+13)



Key Performance Indicators:

- Number of eP transactions since 2019: 26.098
- Number of PS transactions since 2019: 426
- Number of Hospitals connected (PS-B): 3.207
- Number of Pharmacies connected (eP-B): 24.981
- Citizens able to benefit from MyHealth@EU: 5.749.635



* Data are from the KPI's Q4 2021



Coverage of HCPs in the MS

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MS	Hospitals	Pharmacies	Other POC
CZ	15%		
EE		100%	
ES	3.4%		
FI		100%	
FR	100%	100%	100%
HR	100%	100%	100%
LU	100%		
MT	94%		
РТ	2%	0.03%	



EUROPEAN HEALTH DATA SPACE Use of data for healthcare (primary use of data)

Give citizens better access to their health data, everywhere in EU



My Health @ EU eHealth Digital Service Infrastructure A service provided by the European Union







From 2019 exchange of: ePrescriptions Patient Summaries Access by health professionals in their native language



From 2022 exchange of:

Original Clinical Documents

From 2024 exchange of:

Laboratory results and reports Medical images and reports Hospital discharge reports

in health professional's language

As in Recommendation on an Electronic Health Record exchange format

in cooperation with DG CNECT

From 2022: pilot on Patients' access to their translated health data





Next possible steps for MyHealth@EU



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Additional elements that could or should be considered







European Health Data Space

Primary use of health data

Secondary use of health data

Sharing of health data for healthcare

Problems

Limited control of patients over their health data
Limited interoperability between health care providers

Areas of work

- Control of patients over their data
 Interoperability
 Role of e-health agencies
- •Reinforced EU governance
- (eHealth Network)
- •Reinforced MyHealth@EU

Single market for digital health products and services

Problems

Uneven national legislative frameworks
Uneven quality framework
Uneven procedures for prescriptions, reimbursement, liability

Areas of work

- •Eliminate barriers to free movement
- Labelling
- Interoperability
- Reimbursement
- Liability

Access to health data for research, innovation, public health policy making

Problems

Low re-use of health data
Cumbersome cross-border access to health data
Fragmented digital infrastructures

Areas of work

Governance and rules for access to health data
Data FAIR-ification
Digital infrastructure (EHDS2)

Artificial Intelligence

Problems

Limited provision of data for training of Al
Difficulties for regulators to evaluate Al algorithms
Uncertainty on Al liability in health

Areas of work

Support for development and rollout of AI
Data for AI
Support for regulators

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1	9:30	Opening by the French Ministerial eHealth Delegation and by PariSanté Campus; Ouverture par la Délégation ministérielle du Numérique en Santé et par PariSanté Campus		 Antoine Tesniere – ParisSanté Campus – France Laura Létourneau – French ministerial eHealth Delegation – France
2	9:45	The European commission eHealth roadmap; La feuille de route en e-santé de la commission européenne	20'	Konstantin Hyppönen, Hugo van Haastert – European Commission
3	10:05	EU Digital covid certificate : How Europe joined forces for eHealth during the COVID-19 crisis ? Comment l'Europe a-t-elle unit ses forces pour une meilleure e- santé Durant la crise du covid-19 ?	20'	 Vincent Van Pelt – Nictiz – Netherlands Achille Lerpinière – Ministry of Health – France
4	10:30	Speeding up the digital shift in healthcare : European state of play end 2021 Accélérer le virage numérique européen : l'état des lieux à fin 2021	20' •	Nihal Filali, Loïc Chabanier - EY
	10:50	Break Pause	15'	
5	11:05	MyHealth@EU use cases deployment: Member States' updates Les cas d'usages MaSanté@UE : Etat des lieux des états membres	•	 Eamon Coyne, Klara JIRAKOVA – eHMSEG Ines ANTUNES – SPMS – Portugal Alexander ZLOTNIK – Ministry of Health – Spain Heiko ZIMMERMANN, Olivier LEPANTO - Agence e-Santé – Luxembourg Antoine DE MARASSE – ANS – France
6	12:05	X-eHealth (laboratory results, imaging) and rare diseases updates Présentation du projet X-eHealth (résultats de laboratoire, imagerie, lettres de sortie) et réflexion sur les maladies rares	20	Cátia Sousa Pinto – SPMS – Portugal Ana Rath - ORPHANET









Vincent VAN PELT Co-chair, eHealth Network Subgroup on Technical Interoperability Senior Advisor International, Nictiz (NL)

Nictiz





Achille LERPINIERE Head of IT and support Division

French General Directorate for Health

> MINISTÈRE DES SOLIDARITÉS ET DE LA SANTÉ Liberté Égalité Fraternité





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EU DCC - Digital COVID Certificate technical framework



EU Digital covid certificate : How Europe joined forces for eHealth during the COVID-19 crisis





MyHealth@EU Webinar April 7th, 2022 #EU2022FR Vincent van Pelt MS Co-chair, eHN Subgroup on Technical Interoperability









Don't forget your

COVID-19 vaccination or w

December 2020

Each MS has different vaccination/test proofs

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- No agreements on acceptance of the proofs
- Different restrictions for different countries
- Language problems, different naming conventions
- Possible fraud and forgeries
- No standardised data format
- No automated verification possible

Name

Name of vaccine

Batch no

Date vaccine given

Don't forget to attend your appointment to have your second





that/Nous certificons

re and stamp of physician /







EU requirements

- Free travel of EU citizens, non-discriminatory (vaccination/test/recovery)
- Private by design and by default (data minimization, purpose limitation)
 - Iegislation: GDPR, national laws
- Secure by design and by default
 - signed certificates, off-line verification, acceptance rules, revocation
- User-friendly, robust, inclusive (digital and paper)
- Interoperable (open standards, no language barriers, global scope)
- Modular, adaptable (acceptance rules, additional use cases)









EU collaboration

 December 2020: first plans for harmonisation (just before start of vaccinations in EU)

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- eHealth Network Subgroup on Semantics specifies the minimal data set (vaccination, test and recovery), Subgroup on Technical Interoperability defines the Trust Framework.
- January 2020: eHealth Network develops Guideline for vaccination certificates, for medical purpose
- February 2020: switch to travel purpose
- June 2021: publication of the EU DCC <u>Regulation</u> (PE/25/2021/REV/1)
- June 2021: first EU DCC in production

Proposal for a

REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

on a framework for the issuance, verification and acceptance of interoperable certificates on vaccination, testing and recovery to facilitate free movement during the COVID-19 pandemic (EU COVID Card/Digital Green Certificate)

(Text with EEA relevance)

THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty on the Functioning of the European Union, and in particular Article 21(2) thereof,

Having regard to the proposal from the European Commission,

Acting in accordance with the ordinary legislative procedure,

Whereas:

- 1) Citizenship of the Union confers on every citizen of the Union the right to move and reside freely within the territory of the Member States, subject to the limitations and conditions laid down in the Treaties and by the measures adopted to give effect to them. Directive 2004/38/EC of the European Parliament and of the Council⁹ lays down detailed rules as regards the exercise of that right.
- (2) On 30 January 2020, the Director-General of the World Health Organization (WHO) declared a public health emergency of international concern over the global outbreak of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), which causes





eHN SG on Technical Interoperability - approach

•Top experts from the EU

•Up to 175 participants, meetings almost daily

Stakeholders:

- 27 Member States
- DG CNECT, DG SANTE, DG MOVE, DG HOME, DG JUST

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- WHO, ECDC, JRC, HSC, EDPB
- ICAO, IATA, A4E, Schiphol/Frankfurt/Paris Airport
- HL7, IHE, Apple, Alphabet, Microsoft

 Agile, quick but not dirty, look for the most elegant solution

 Room for opinions but respect for knowledge and each other

 Task Forces, open process, open source and free software





Approach for interoperability - domains, stakeholders

Refined eHealth European Interoperability Framework



ReEIF interoperability model

Alignment between organisations, on all layers of the model

? Involve all stakeholders, at different levels and for different tasks



EU DCC framework components

10021













Minimum data set

N12

- As defined by the eHN SG on Semantics and adopted by the eHN
- The list of data fields is defined by the hCert Schema

Data Field	Abbreviation	Туре	
Certificate Issuer	is	Vac/Test/Rec	
Certificate Valid Until	du	Rec	
Country of Test	co	Test	
Country of Vaccination	со	Vac	
Date of Vaccination	dt	Vac	
Date/Time of Sample Collection	sc	Test	
Date/Time of Test Result	dr	Test	
Dose Number	dn	Vac	
ISO 8601 Date of First Positive Test Result	fr	Rec	
ISO 8601 Date: Certificate Valid From	df	Rec	
Marketing Authorization Holder	ma	Vac	
NAA Test Name	nm	Test	
RAT Test name and manufacturer	ma	Test	
Target Disease Agent	tg	Vac/Test/Red	
Test Result	tr	Test	
Testing Centre	tc	Test	
Total Series of Doses	sd	Vac	
Type of Test	tt	Test	
Unique Certificate Identifier: UVCI	ci	Vac/Test/Red	
Vaccine medicinal product	mp	Vac	
Vaccine or Prophylaxis	vg	Vac	



Ask your questions on the chat !





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Not your average QR code





In the press



Date: 26 August 2021

IATA Backs European Digital Covid Certificate as Global Standard



Geneva - The International Air Transport Assoc for its leadership and speed in delivering the El make it their global standard for digital vaccine

"The DCC was delivered in record time to help absence of a single global standard for digital v other nations looking to implement digital vacc associated economic benefits," said Conrad C

The EU DCC meets several key criteria which h vaccination certificate is to be effective:

- Format: the DCC has the flexibility to be used in both paper and digital format
- QR code: The DCC QR code can be included in both digital and paper format. It contains essenti: sure the certificate is authentic.
- Verification and authentication: The European Commission has built a gateway through which t authenticate certificate signatures can be distributed across the EU. The gateway can be also us issuers other issuers. The EU has also developed a specification for machine readable Validation

EU Digital COVID Certificate goes live a month early



Tourism Manifesto

EUROPE'S TRAVEL & TOURISM SECTOR WELCOMES ADOPTION OF <u>EU DIGITAL COVID</u> <u>CERTIFICATE</u>

Brussels, 26th May 2021.



Popu Less than three months after the publication of the Commission's proposal, the European Parliament's LIBE committee and the Council have approved the

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Milestones and current status

Milestones EU DCC

- First assignment: December 2020
- First go-live: June 2021
- From first idea to fully standardised implementation in 6 months

Current status

- Currently implemented in 64 countries, 27 in the pipeline
- More than 1,7 billion certificates issued
- No security breaches (and revocation for fraud and errors)





Lessons learned

- Shared goal
- Sense of urgency
- Top experts from all MS
- Positive atmosphere
- Flexibility, room to manoeuvre
- Focus Task Forces
- Quick but not dirty
- Strength through diversity
- Inspirational approach, way of working, results

From first idea to standards-based implementation in six months!







Current health IT landscape

Shared sense of urgency

Similar challenges

Similar solution directions

Let's join forces!

