



Council of the European Union
General Secretariat

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Brussels, 03 May 2024

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MEETING DOCUMENT

From:	General Secretariat of the Council
To:	Working Party on Frontiers
Subject:	Digitalisation of travel documents and facilitation of travel: upcoming proposal

Delegations will find attached the presentation made by the Commission at the meeting of the Working Party on Frontiers of 02 May 2024 on the above-mentioned subject.

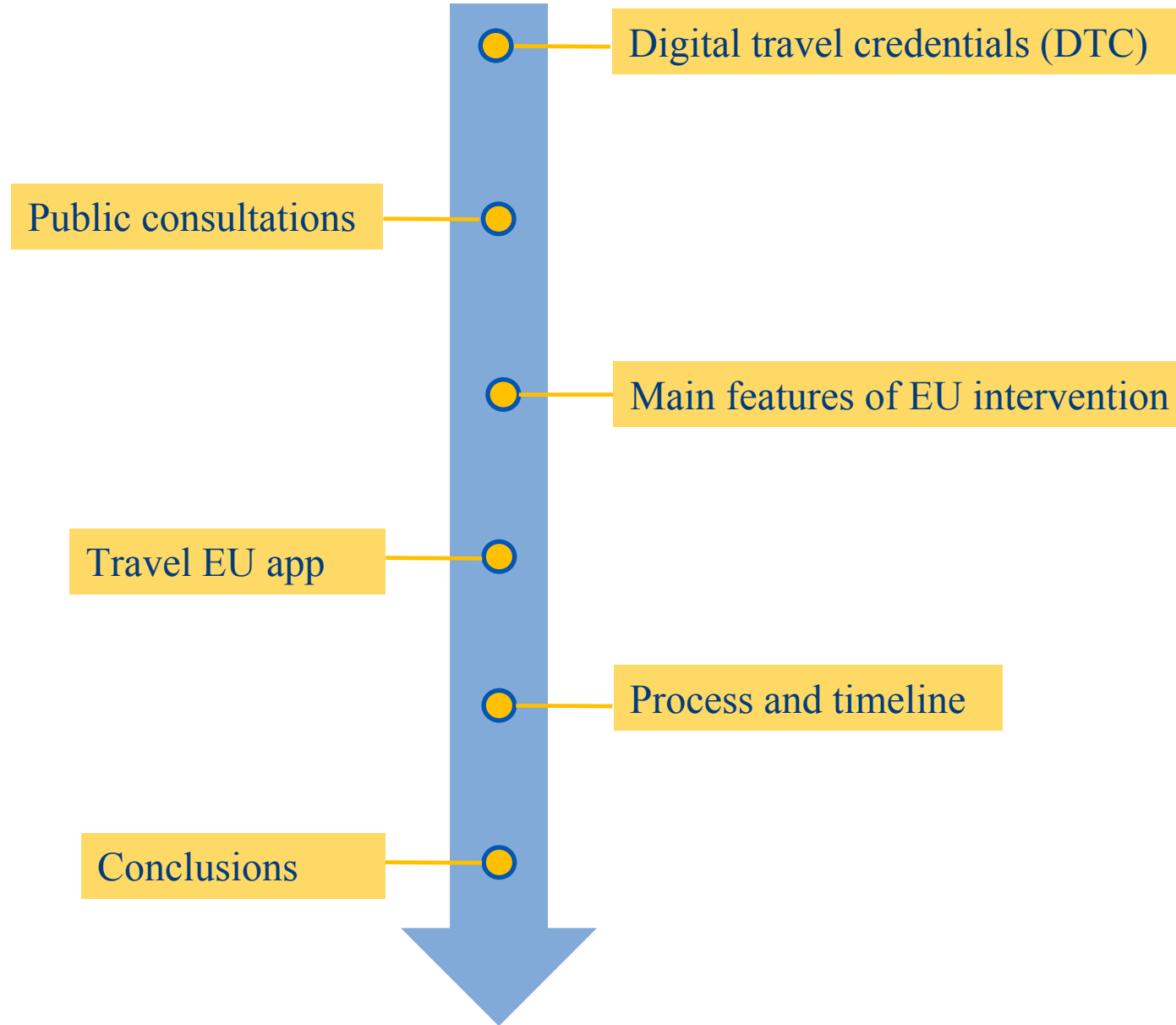


Digitalisation of travel documents and facilitation of travel: upcoming proposal

Frontiers Working Party, 2 May 2024

Doc security and ID management

Today's talk



Terminal Options | Card Reader Options | View | Tools | Update | License | Language | Style

Reader Names: HID Global OMNIKEY | Perform TA on EAC 1.x | Use SFI | EF.COM optional | Read Buffer: 223

Perform CA on EAC1.x | Perform AA on EAC Passports | Ignore ePassport DG13

Perform AA | Force Static Binding | Check Existence: EF.COM

ePassport

Read

Read From Disk

Capture To Disk

Reset Display


Access Options

- Standard
- BAC [EAC1]
- PACE [EAC1]**
- PACE + EAC2
- Autodetect

eMRTD Security

- Access Control
 - PACE: performed
 - Chip Authentication: performed
 - Terminal Authentication: error
 - Active Authentication: performed
- Passive Authentication:
 - EF.SOD
 - SOD Digest: successfully checked
 - SOD Signature: successfully checked
 - EF.COM/EF.SOD comparison: successfully checked
 - Country Code Match (MRZ/Cert): unknown
 - Country Code Match (DG1/Cert): successfully checked
 - Document Signer Certificate
 - DS Certificate Trust Status: undetermined
 - DS Certificate Validity (31.10.2021 01:00:00 - 01.02.2027 20:00:00): successfully checked
 - DS Certificate Signature: unknown
 - DS Certificate Validity Checking Time: 05.09.2023 14:01:45
 - Subject: CN=ICAO Compliant Document Signer for Passport
 - Issuer: CN=CSCA Finland,OU=VRK,O=Finland,C=FI
 - Serial: 10300128
 - Subject Key Identifier: 5DA6E431C4C2FAFA7F572E7DBE1AC
 - Authority Key Identifier: 87589C29D9769CF5B7EA661A3C8C
 - Country Signer Certificate (not found)
 - SOD Signature algorithm: RSAPSS
 - DS Certificate Signature Algorithm: SHA256withRSA
 - Data Group Hash: SHA256

Biometric Pictures (DG2 / DG3 / DG4)



Facial Image

Data Groups

DG 1 (Personal Data)

Given Name: Hunter | Surname: Winter

Date of Birth (dd.mm.yy): 06.09.2023 | Nationality: EU

Scanned / Entered MRZ

Output

```

00:00:05:883:GENERIC:P0188:T17088:2023-09-05:16:01:43:664:APP_EPASS...READ_DG02: Operations: Passport::readTagLengthP1 - Calculated TLV ob
00:00:07:187:GENERIC:P0188:T17088:2023-09-05:16:01:44:967:APP_EPASS...READ_DG02: ReadData: ePass DG2 - End
00:00:07:187:INFO:P0188:T17088:2023-09-05:16:01:44:967:APP_EPASS...READ_DG02: DG2 reading time: 00:00:01.319
00:00:07:187:NOTICE:P0188:T17088:2023-09-05:16:01:44:967:APP_EPASS...READ_DG02: Decoding file DG2 in application ePassport
00:00:07:187:NOTICE:P0188:T17088:2023-09-05:16:01:44:967:APP_EPASS...READ_DG02: Successfully decoded
00:00:07:187:NOTICE:P0188:T17088:2023-09-05:16:01:44:967:APP_EPASS...PERFORM_TA: Reading file EF.CVCA in application ePassport
00:00:07:187:GENERIC:P0188:T17088:2023-09-05:16:01:44:967:APP_EPASS...PERFORM_TA: ReadData: EF.CVCA - Start
00:00:07:202:GENERIC:P0188:T17088:2023-09-05:16:01:44:983:APP_EPASS...PERFORM_TA: ReadData: EF.CVCA - End
00:00:07:202:INFO:P0188:T17088:2023-09-05:16:01:44:983:APP_EPASS...PERFORM_TA: EF.CVCA reading time: 00:00:00.015
00:00:07:202:NOTICE:P0188:T17088:2023-09-05:16:01:44:983:APP_EPASS...PERFORM_TA: Decoding file EF.CVCA in application ePassport
00:00:07:202:NOTICE:P0188:T17088:2023-09-05:16:01:44:983:APP_EPASS...PERFORM_TA: Successfully decoded
00:00:07:202:GENERIC:P0188:T17088:2023-09-05:16:01:44:983:APP_EPASS...PERFORM_TA: Protocol: TerminalAuthentication - Start
00:00:07:202:GENERIC:P0188:T17088:2023-09-05:16:01:44:983:APP_EPASS...PERFORM_TA: Error: General - PassportAPIException:32 - Building the ce
00:00:07:202:GENERIC:P0188:T17088:2023-09-05:16:01:44:983:APP_EPASS...PERFORM_TA: Protocol: TerminalAuthentication - End
00:00:07:202:ERROR:P0188:T17088:2023-09-05:16:01:44:983:APP_EPASS...PERFORM_TA: Building the certificate chain failed (e.g. due to missing
00:00:07:202:INFO:P0188:T17088:2023-09-05:16:01:44:983:APP_EPASS...PERFORM_TA: TerminalAuthentication Version 1 processing time 00:00:00
00:00:07:202:NOTICE:P0188:T17088:2023-09-05:16:01:44:983:APP_EPASS...READ_DG03: Reading file DG3 in application ePassport
00:00:07:202:GENERIC:P0188:T17088:2023-09-05:16:01:44:983:APP_EPASS...READ_DG03: ReadData: ePass DG3 - Start
00:00:07:218:GENERIC:P0188:T17088:2023-09-05:16:01:44:998:APP_EPASS...READ_DG03: Error: General - PassportAPIException:7 - The passport sec
00:00:07:218:GENERIC:P0188:T17088:2023-09-05:16:01:44:998:APP_EPASS...READ_DG03: ReadData: ePass DG3 - End
00:00:07:218:ERROR:P0188:T17088:2023-09-05:16:01:44:998:APP_EPASS...READ_DG03: Error reading file from card: The passport security condit
00:00:07:218:ERROR:P0188:T17088:2023-09-05:16:01:44:998:APP_EPASS...READ_DG03: The passport security conditions are not fulfilled.
00:00:07:265:INFO:P0188:T17088:2023-09-05:16:01:45:045:APP_EPASS...ePassportApplication reading time 00:00:02.152
  
```

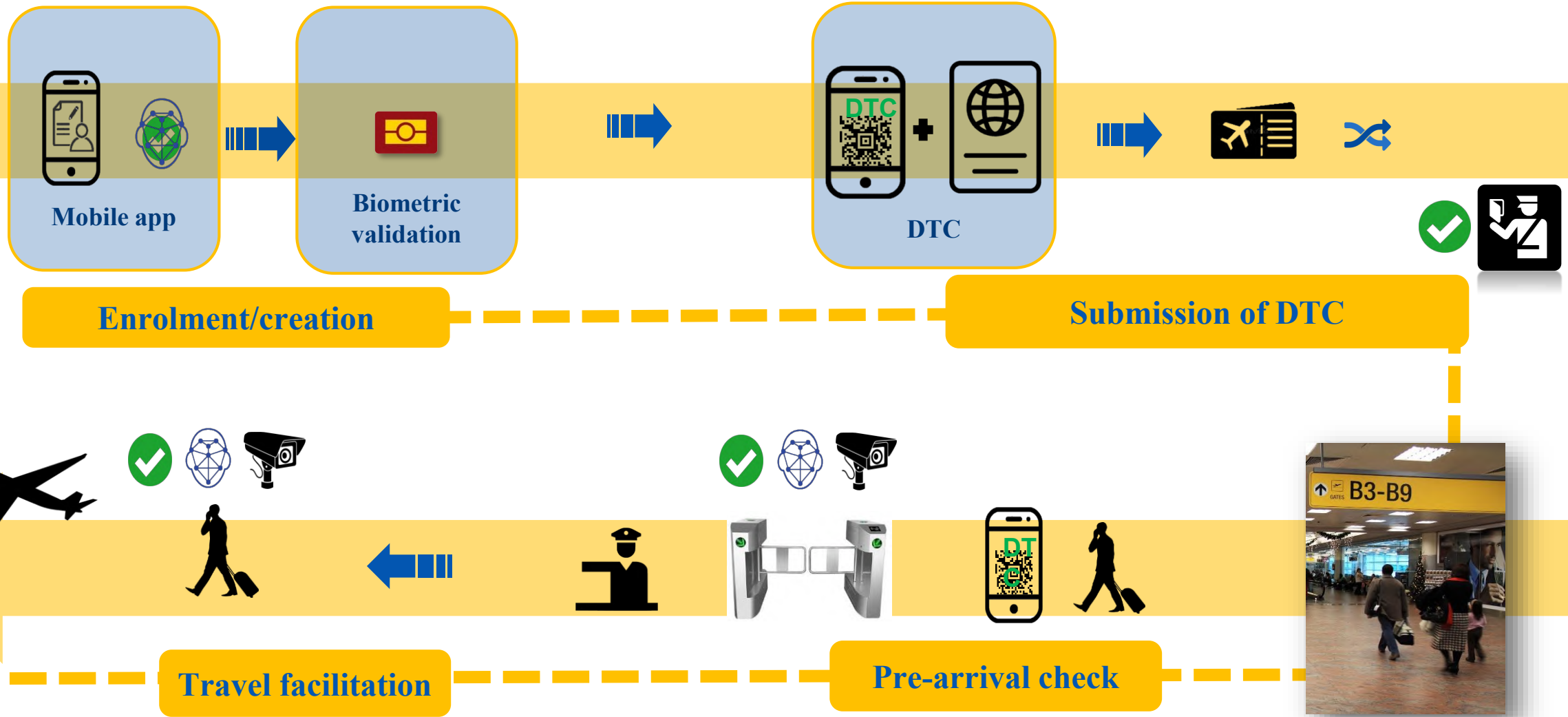
ePassport

eVRC

IDL

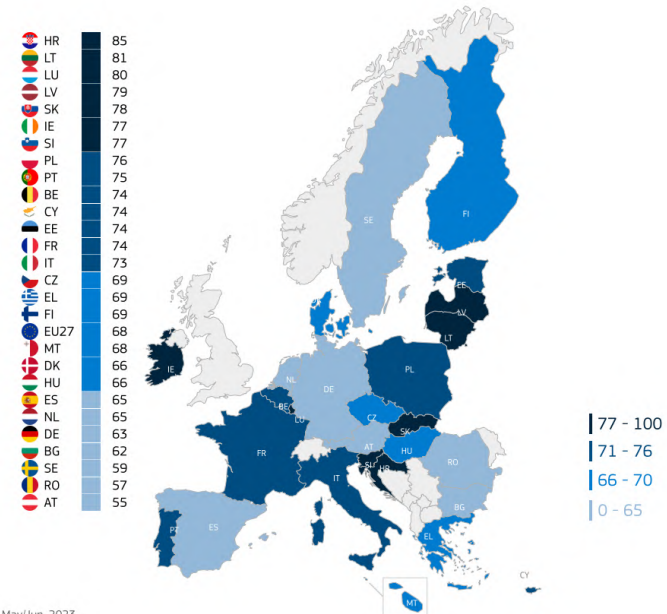
Certificate Management

DTC: border check use case



At least 8 in 10 believe that Member States should be obliged to provide Digital Travel Credential to their citizens

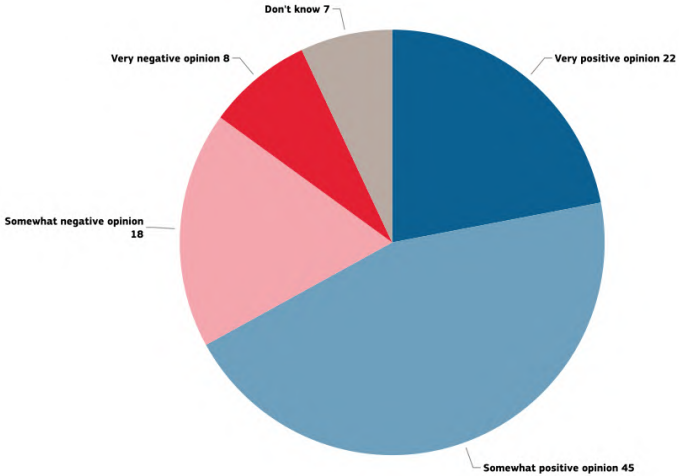
QA22. Do you think all EU Member States should be obliged to provide the possibility of having a Digital Travel Credential to their citizens? - Total 'Yes' (%)



May/June 2023

Almost 7 in 10 respondents are positive about DTCs

QA15. What's your general opinion about Digital Travel Credentials (DTCs)? (EU27) (%)



May/Jun. 2023

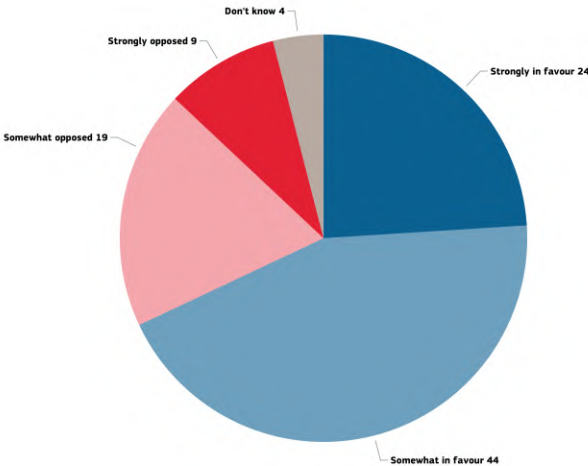


Base: all respondents (26,358)



Almost 7 in 10 respondents are in favour of the use of DTCs when travelling to or outside the Schengen Area

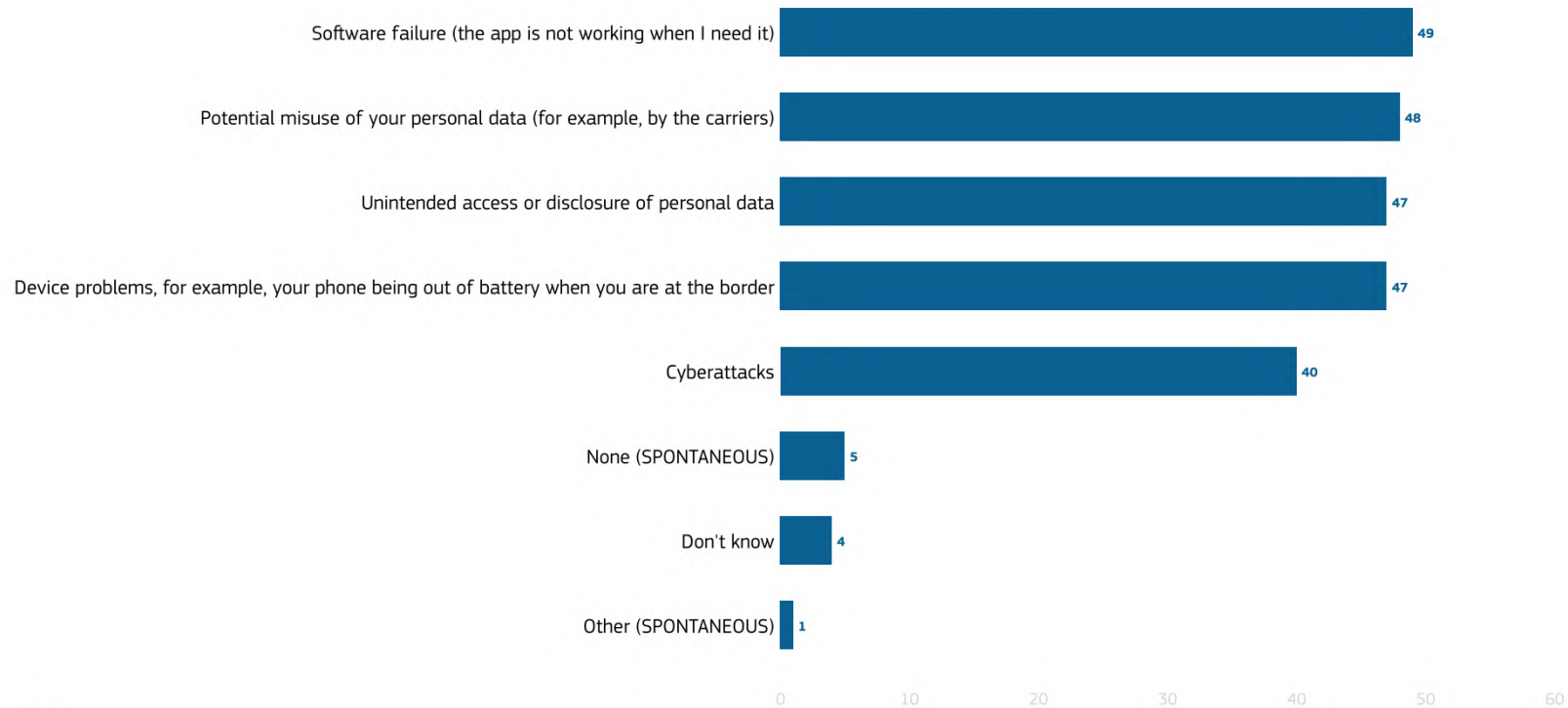
QA16. Are you personally in favour or opposed to the use of digital travel documents (for example with no more need to present any documents when boarding a plane, automated boarding gates which match the entitled ticketholder with facial recognition) when travelling to or outside the Schengen Area? (EU27) (%)



May/Jun. 2023

For almost 5 in 10 respondents, the main concern about using DTCs is software failure

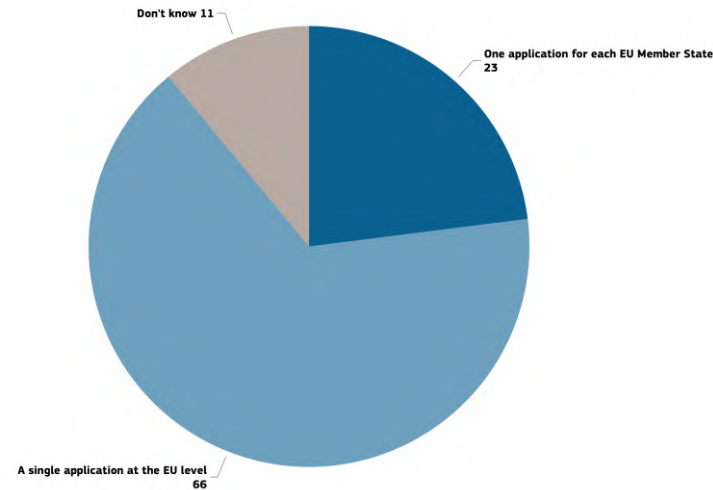
QA18. What concerns, if any, do you have about using Digital Travel Credentials? (MULTIPLE ANSWERS POSSIBLE) (EU27) (%)



May/Jun. 2023

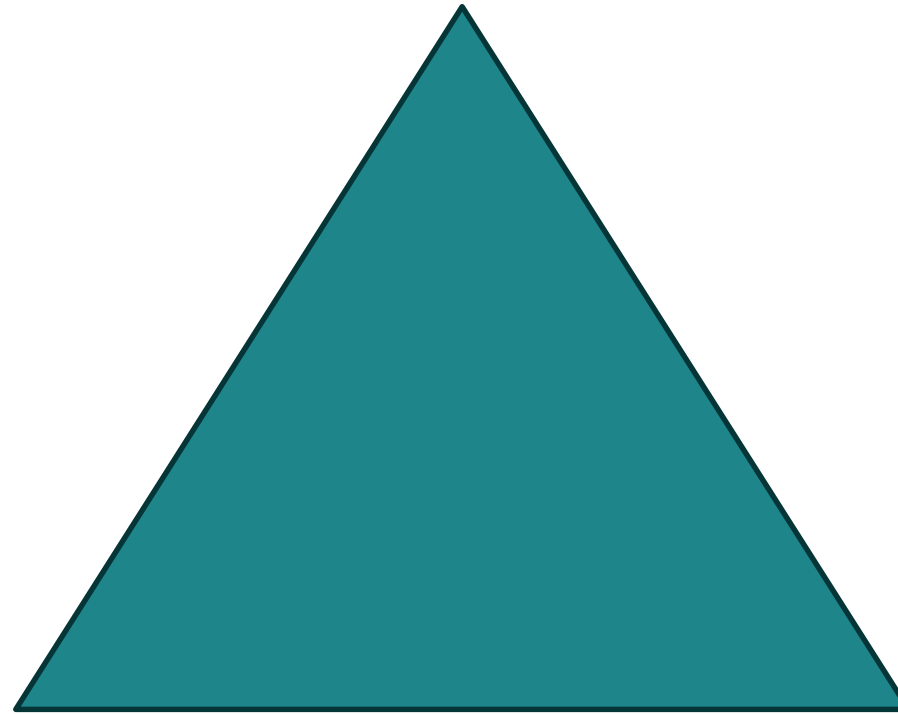
More than 6 in 10 respondents would prefer a single application at the EU level containing a common EU DTC standard

QA19. Would you prefer to have one application for each EU Member State, or a single application at the EU level, containing a common EU Digital Travel Credential standard? In the first case, this means that depending on the countries you are traveling to and from, you might have to download several applications. (EU27) (%)



May/Jun. 2023

Voluntary use of DTC by traveller
(EU and TCN)



Travel EU application

Legal framework for border checks with DTC

Components of Travel EU app – derivation of DTC (common for EU and TCN)



1. Derivation of DTC from eMRTD

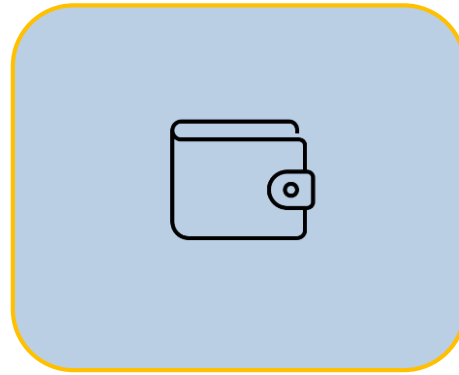


2. Document validation (PA, AA/CA with PKI)



3. Biometric matching of live user against DG2

Components of Travel EU app – retrieve DTC in digital wallet (EU nationals only)



4. EU nationals may have DTC in their eIDAS compliant digital wallet

- App should be able to retrieve it for use

Components of Travel EU app – entry of travel related data (common for EU and TCN)



- 5. Travel related data
 - a) Intended travel date
 - b) Window of time for crossing border
 - c) Member State of border crossing

Components of Travel EU app – data storage and security



6. Data storage

- No personal data stored centrally at EU level
- Only statistics to be collected at EU level



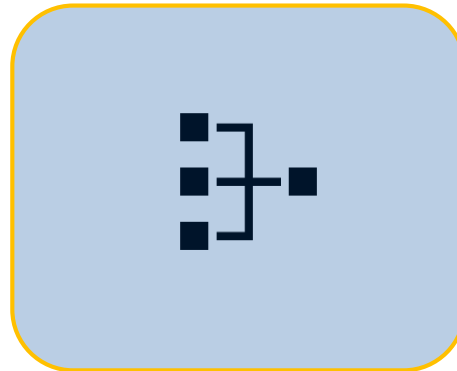
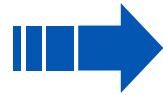
7. Data security

- Protect against cyberattacks, encryption to protect personal data

Components of Travel EU app – submission of DTC and travel related data



User submits via app



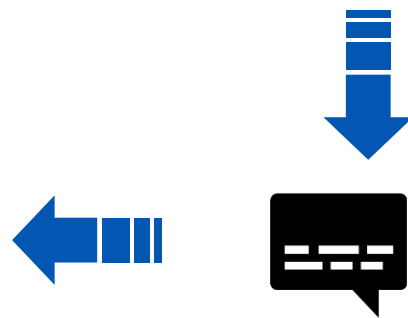
Traveller Router receives



Traveller Router transmits to competent MS



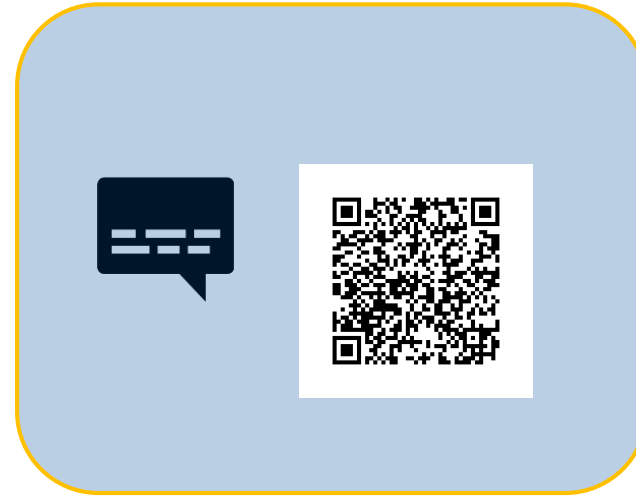
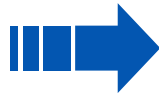
App transmits acknowledgement of receipt to user



Components of Travel EU app – messaging and instructions req. 9



In backend, MS carries out check on doc, databases etc.



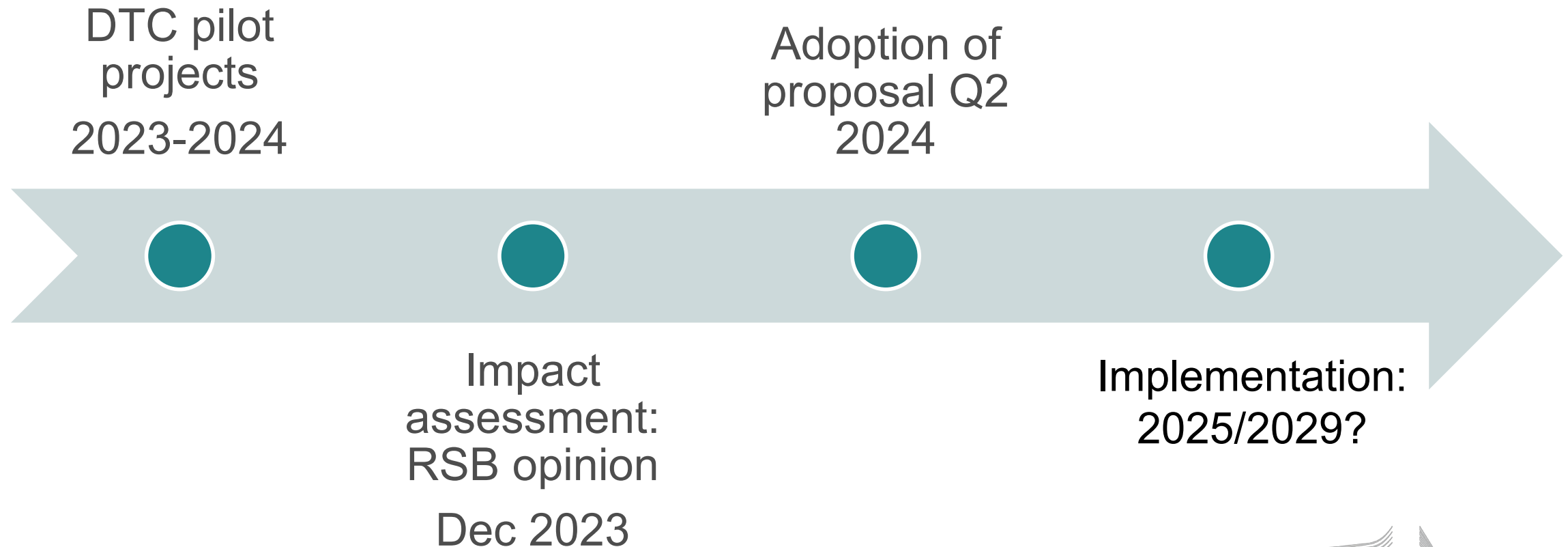
MS informs user via app how to proceed

Components of Travel EU app – statistics and logging



10. Statistics and logging
- User volume (incl nationalities)
 - Number of submitted entries
 - Modes of transport
 - Failed transmissions (reasons)
 - Failed document verifications (country + reason)
 - Failed biometric matches (nationality + reason)

Process timeline



Conclusion



- Voluntary use of DTC for travellers
- DTC will not fully replace physical documents
- Establish the ‘Travel EU application’, one-stop-shop app
- Legal framework on border checks (incl. EES pre-registration)
- Further pilot projects

Thank you



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