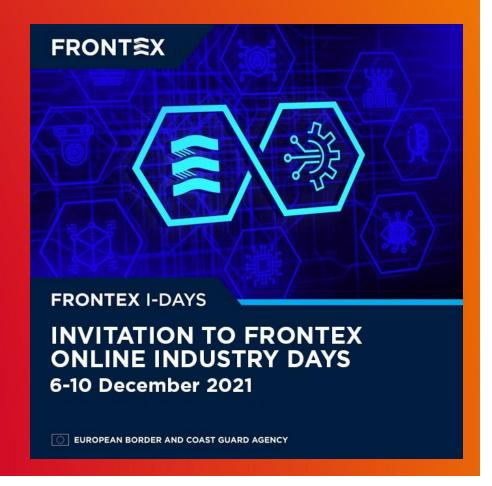
# ENTRY-EXIT SYSTEM MOBILE BORDER CHECKS & MORE

FRONTEX INDUSTRY DAYS
7/12/2021, 09:30 - 09:55 CET



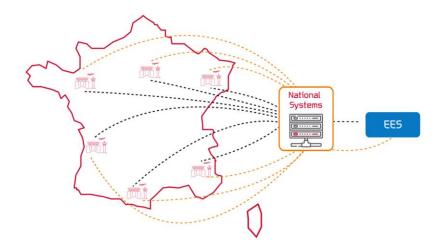


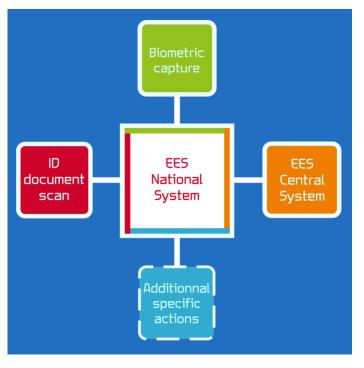


## **Context and Introduction**

French Ministry of Interior Entry-Exit System Programme

- Operational impact of EES EiO on border controls
- Mobile devices for swift EES checks at borders
  - In particular: sea ports, land borders, rail
- Flexible open-source modular end-to-end solution
  - Hardware agnostic software solution
- Decoupled hardware & software for better maintainability and evolutions
- Wider solution for ID checks within Schengen Area (IOP)
- Proof of Concept demonstrated at Milipol 2021
  - ID document check (MRZ & RFID)
  - □ EES check
  - Sanitary Pass QR Code check







# **Mobile Device Key Features & Functionalities**

Example of Hand-held Check Device & Enrolment Tablet

- OCR reader for passport/ID card MRZ
  - Left or right handed
- IR reader for QR code
- FP reader
- RFID chip reader (on the back)
- Camera (on the back)
  - □ For 1:1 face matching















**Tablet device for 1**st enrolment

Images not to same scale

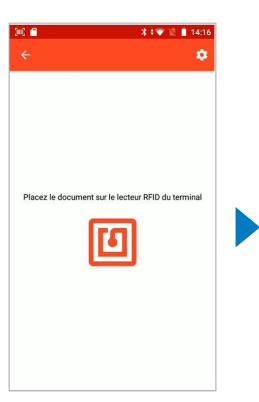


## **ID Document Check**

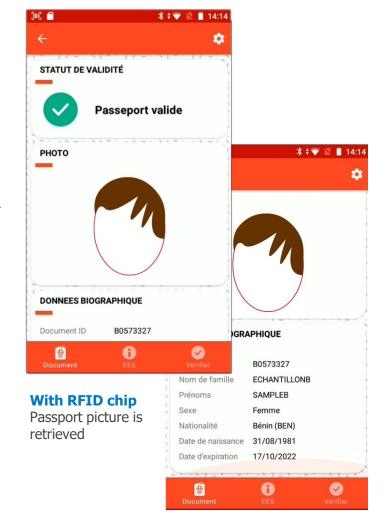
### MRZ & RFID



**OCR Document Scan**Passport or ID Card MRZ



Document RFID reader
Step may be skipped if no chip
passport
Only 50% of passports have RFID





Only MRZ

Biographic information only is displayed



## **EES Check**

## Valid & Invalid Stay





#### **Valid Stay Case**

EES data matches passport and stay is valid or Free Movement



#### **History Information**

Entries, exits, rejections Where, when, authorised stay...





#### **Invalid Stay Case**

Stay duration expired of 55 days



# (M)

# **Sanitary Pass Check**

## Successful ID Match



**QR Code Scan**Sanitary Pass QR code is scanned



OCR Document Scan
Passport or ID Card MRZ



#### **Successful Check**

Sanitary pass QR Code is valid and identity match with passport/ID card

**Retrieves EES information** 

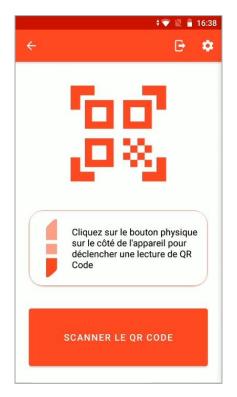




# (53)

# **Sanitary Pass Check**

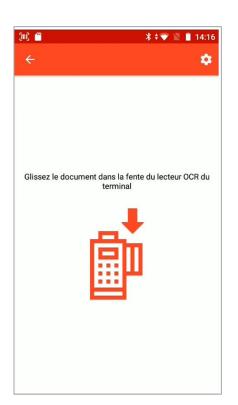
## QR Code Invalid or No ID Match



**QR Code Scan**Sanitary Pass QR code is scanned



**QR Code Not Valid**E.g. not a Santary Pass QR code



**Request to scan ID document**IF QR code is Sanitary Pass for ID match



**No ID Match**Identity mis-match between ID and Sanitary Pass



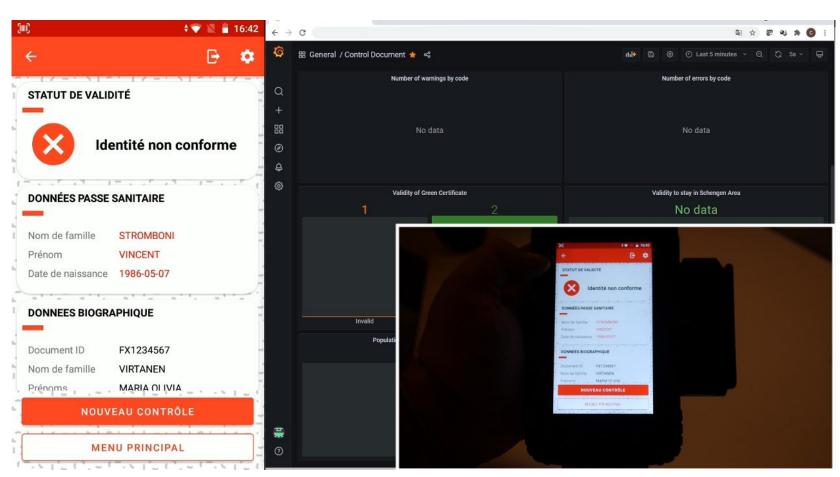


# **Sanitary Pass Check**

Demo: Identity Mis-match

#### **Mobile Application Display**

Identity of ID document and sanitary pass do not match



#### **Back-end Dashboard**

Desktop part of application recording all checks performed Provides real-time information on checks

#### **Video of Demo**

Demo performed using sample document and Sanitary Pass



## **Solution Back-End Dashboard**

## Configurable and Customisable

Number of TCN checks sorted by country

**Warning messages** 

Not matching ID document (scan vs EES), low resolution image, etc.

Leads to 2<sup>nd</sup> line check



## **EES** services invoked

ID document, Sanitary Pass, Fingerprint, other

#### **Error messages**

Stay period expired, EES record not found, identity mis-match, etc.

Entry should be refused

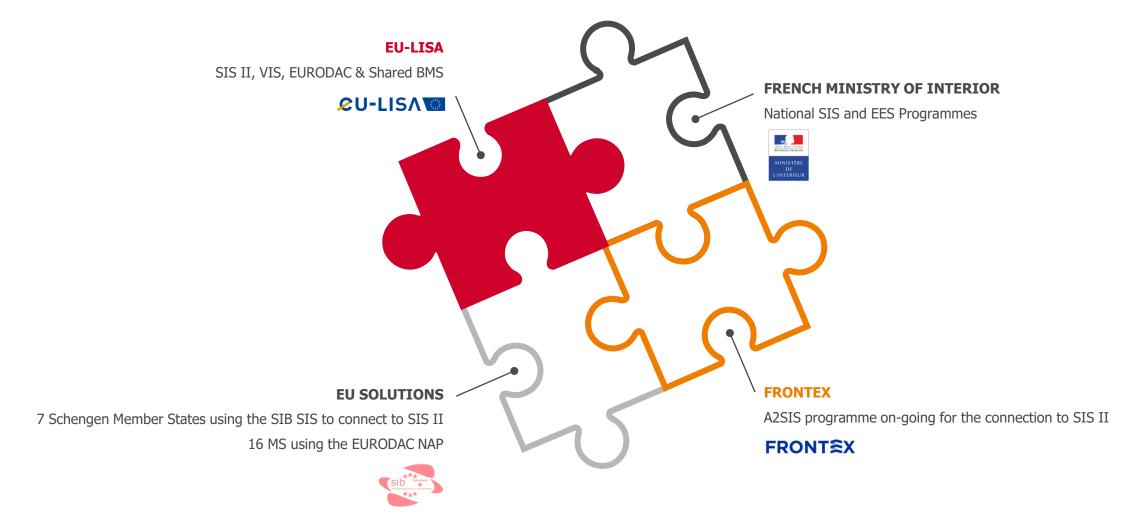
**Sanitary pass validity (OK/NOK)** 

Stay period exceeded (OK/NOK)



# **The Sopra Steria Schengen Footprint**







# **Thank You**

Any Questions?

\_ Interested to see our demo?



# **Contact**

Account Manager

@soprasteria.com

