Revision of Advanced Passenger Information Directive

Council Directive 2004/82 on the obligation of carriers to communicate passenger data

Agenda

1. Introduction and presentation of the 'status quo'

2. 'Building upon' the ETIAS query

3. Modes of capture and API data quality

4. API on outbound flights

European Commission
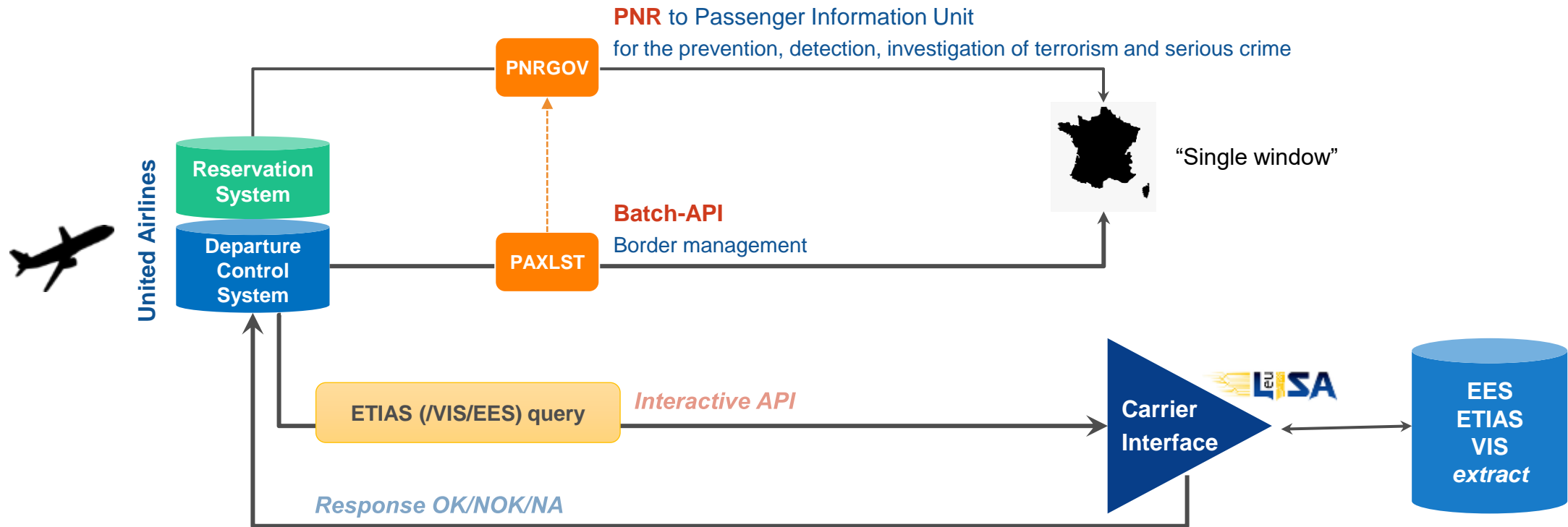
« Thomas Anderson goes on a trip"

Thomas travels from Washington to **Paris and back to New York**

Thomas requested an **ETIAS** (European Travel Information and Authorisation System)

Thomas booked a ticket on United Airlines: Carrier sends **PNR data** to French PIU (but also PNR data to the USA)
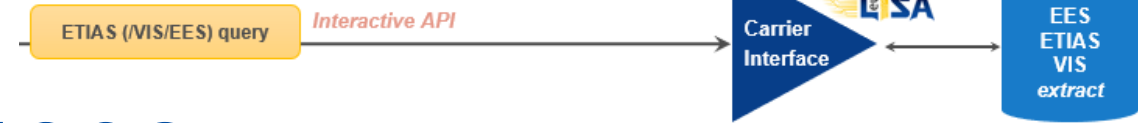
Thomas checks-in online: Carrier queries ETIAS to make sure Donald has required authorization

Thomas boards the plane: Carrier (via ground-handler) sends **batch-API** to France

PNR to Passenger Information Unit

for the prevention, detection, investigation of terrorism and serious crime

PNRGOV

Reservation System

Departure Control System

United Airlines

PAXLST

Batch-API

Border management

"Single window"

ETIAS (/VIS/EES) query

Interactive API

Carrier Interface

*eu*LISA

EES ETIAS VIS *extract*

Response OK/NOK/NA

European Commission

ETIAS/VIS/EES query
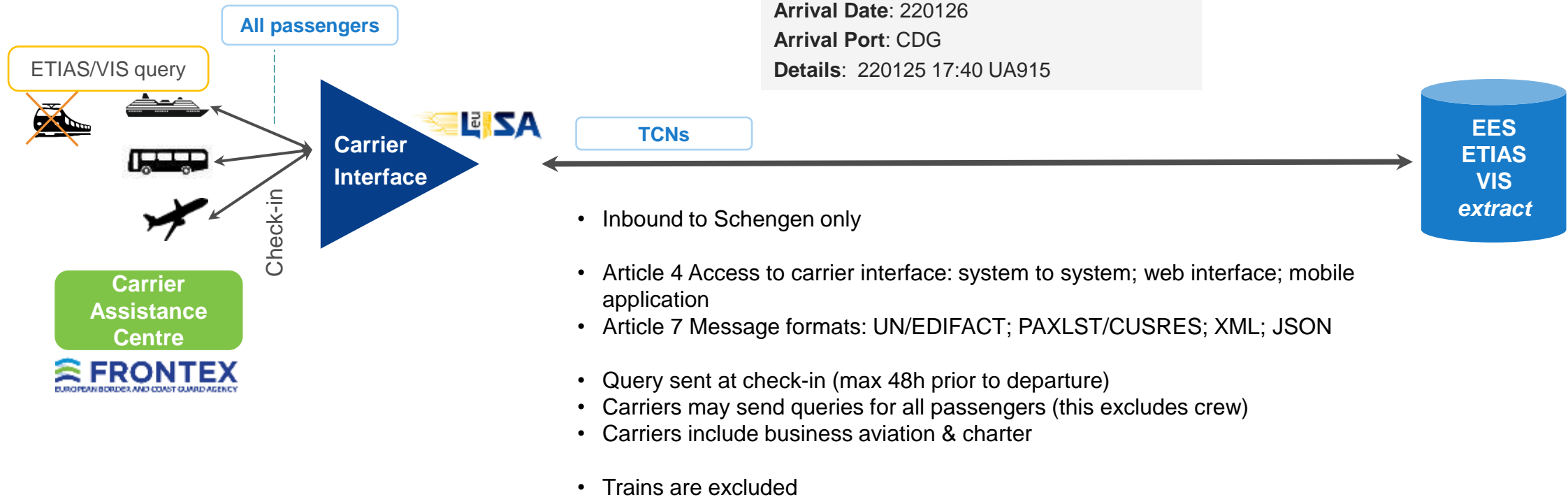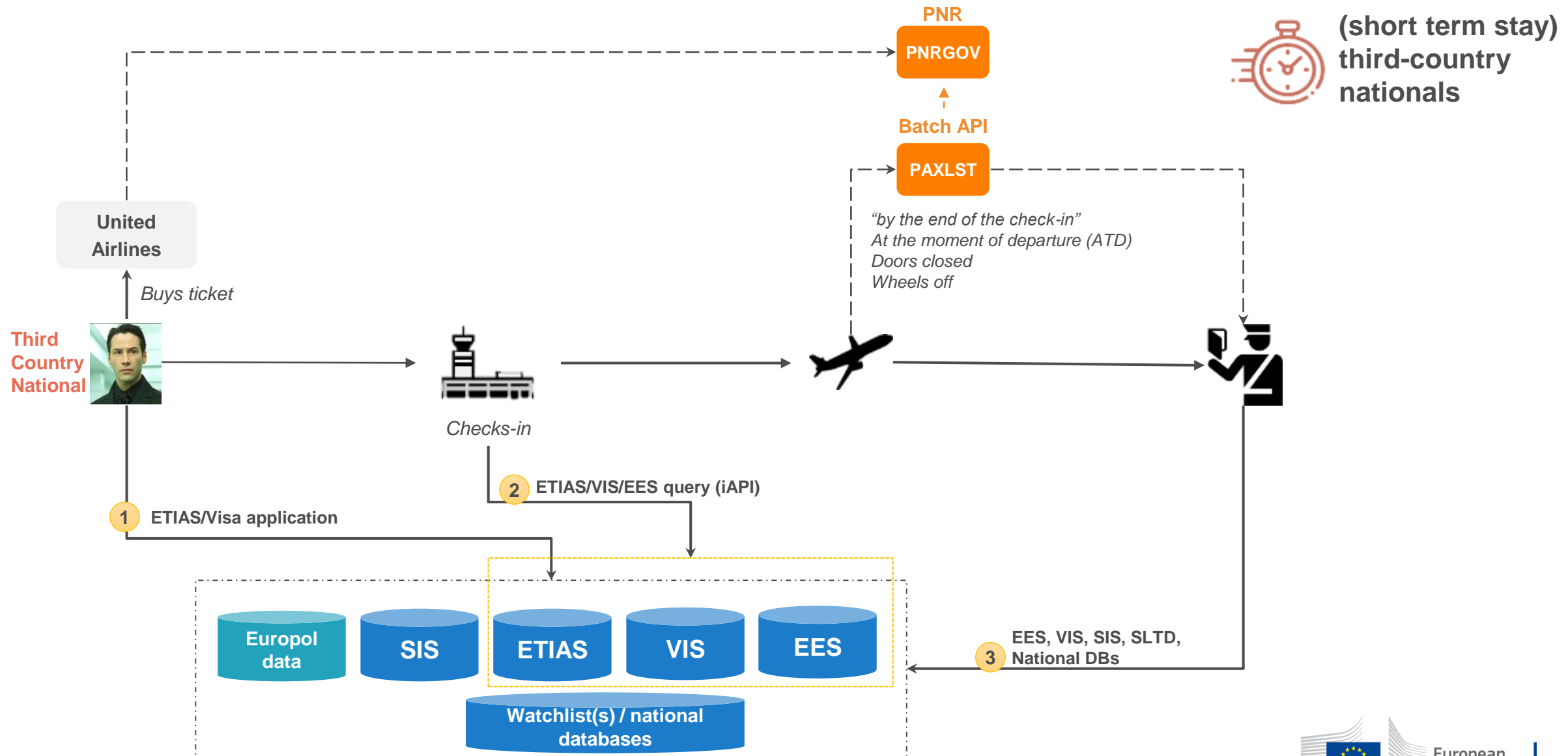# Implementing Act C(2021) 4902

Article 5
Queries

1.   In order to send the verification query, the carrier shall provide the following traveller data:

    (a)   surname (family name); first name or names (given names);

    (b)   date of birth, sex and nationality;

    (c)   the type and number of the travel document and the three letter code of the issuing country of the travel document;

    (d)   the date of expiry of the validity of the travel document;

    (e)   the scheduled day of arrival at the border of the Member State of entry;

    (f)   one of the following:

        (i)   the scheduled Member State of entry;

        (ii)   where possible to identify the scheduled Member State of entry, an airport in the Member State of entry.

    (g)   the details (local date and time of scheduled departure, identification number where available or other means to identify the transport) of the means of transportation used to access the territory of a Member State.

2.   For the purposes of providing the information referred to in paragraph 1, points (a) to (d), carriers may scan the machine-readable zone of the travel document.

3.   Where the passenger is exempt from the scope of Regulation (EU) 2018/1240 in accordance with Article 2 of that Regulation or is in airport transit, the carrier shall be able to specify it in the verification query.

4.   Carriers shall be able to send a verification query for one or more passengers. The carrier interface shall include the reply referred to in Article 6 for each passenger included in the query.

Situation after ETIAS

Surname: ANDERSON
First Names: THOMAS
Gender: M
D.O.B.: 460614
Nationality: USA
Travel Document: P<USA<E99765367
Expiry Date: 250316
Arrival Date: 220126
Arrival Port: CDG
Details: 220125 17:40 UA915

All passengers

ETIAS/VIS query

Check-in

Carrier Interface

eu LISA

TCNs

Carrier Assistance Centre

FRONTEX
EUROPEAN BORDER AND COAST GUARD AGENCY

EES ETIAS VIS *extract*

- Inbound to Schengen only

- Article 4 Access to carrier interface: system to system; web interface; mobile application
- Article 7 Message formats: UN/EDIFACT; PAXLST/CUSRES; XML; JSON

- Query sent at check-in (max 48h prior to departure)
- Carriers may send queries for all passengers (this excludes crew)
- Carriers include business aviation & charter

- Trains are excluded

European Commission

Entering Schengen   Third Country National 'flow'

PNR

PNRGOV

Batch API

PAXLST

"by the end of the check-in"
At the moment of departure (ATD)
Doors closed
Wheels off

(short term stay) third-country nationals

United Airlines

Buys ticket

Third Country National

Checks-in

① ETIAS/Visa application

② ETIAS/VIS/EES query (iAPI)

③ EES, VIS, SIS, SLTD, National DBs

Europol data **SIS** **ETIAS** **VIS** **EES**

Watchlist(s) / national databases

European Commission
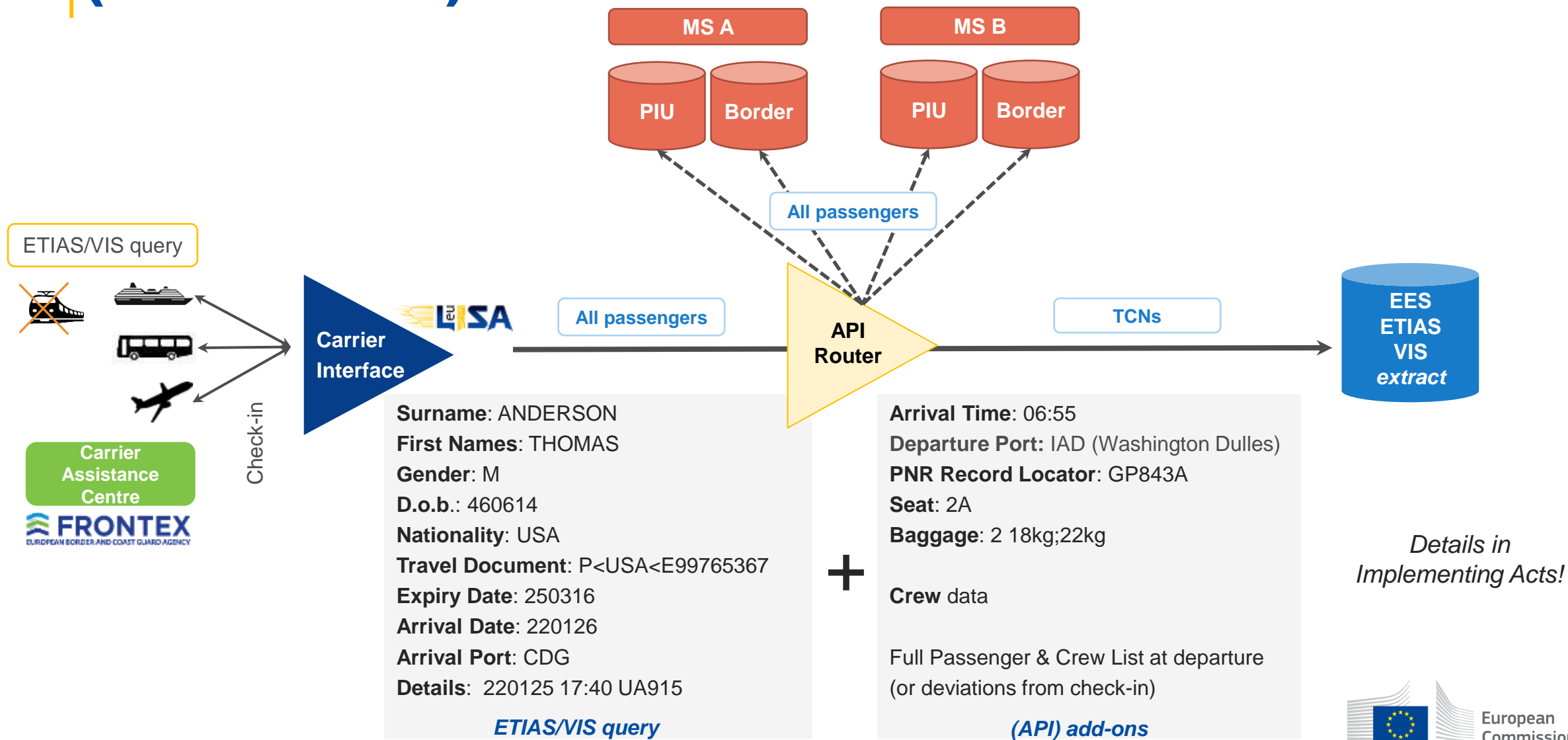
Entering Schengen   "Free movement 'flow'"

= EU citizens, TCNs family members of EU citizens etc

(all others not in ETIAS/EES/VIS scope)

PNR

PNRGOV

Batch API

PAXLST

API sent "by the end of the check-in"
At the moment of departure (ATD)
Doors closed
Wheels off

United Airlines

Buys ticket

"Free movement"

Checks-in

1 ETIAS/VIS/EES query (iAPI)

2 *SIS, SLTD, National DBs*

~~Europol data~~

SIS

ETIAS   VIS   EES

~~Watchlist(s)~~ / national database

European Commission

'Building upon' the ETIAS query (API router)

MS A — PIU | Border
MS B — PIU | Border

All passengers

ETIAS/VIS query

Carrier Interface — euLISA

Carrier Assistance Centre — FRONTEX European Border and Coast Guard Agency

Check-in

All passengers

API Router

TCNs

EES ETIAS VIS *extract*

Surname: ANDERSON
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Expiry Date: 250316
Arrival Date: 220126
Arrival Port: CDG
Details: 220125 17:40 UA915

ETIAS/VIS query

+

Arrival Time: 06:55
Departure Port: IAD (Washington Dulles)
PNR Record Locator: GP843A
Seat: 2A
Baggage: 2 18kg;22kg

Crew data

Full Passenger & Crew List at departure (or deviations from check-in)

(API) add-ons

Details in Implementing Acts!

European Commission

Additional API data fields

Current API Directive   **Additional data fields**

Flight data
- ► border crossing point of entry
- ► code of transport
- ► departure and arrival *time* of the transportation
- ► total number of passengers
- ► initial point of embarkation

- ► departure and arrival *dates*

Data retention (24h)

Identity data
- ► Full name
- ► Date of birth
- ► Nationality
- ► Travel document n°
- ► Travel document type

- ► Gender
- ► Issuing State or organisation of the official travel document
- ► Travel document expiration date

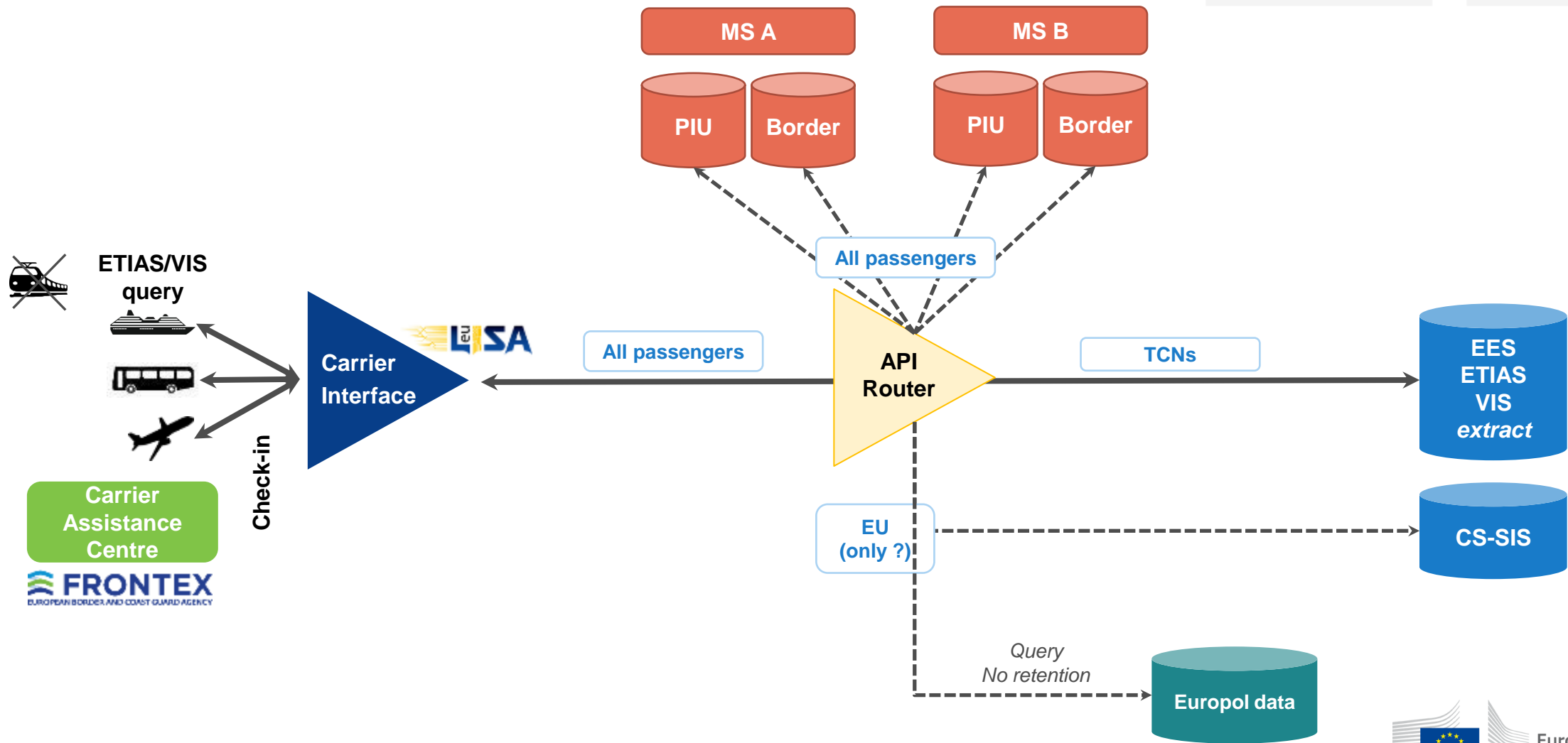- ► PNR locator
- ► Seating information
- ► Baggage information

Machine Readable Zone

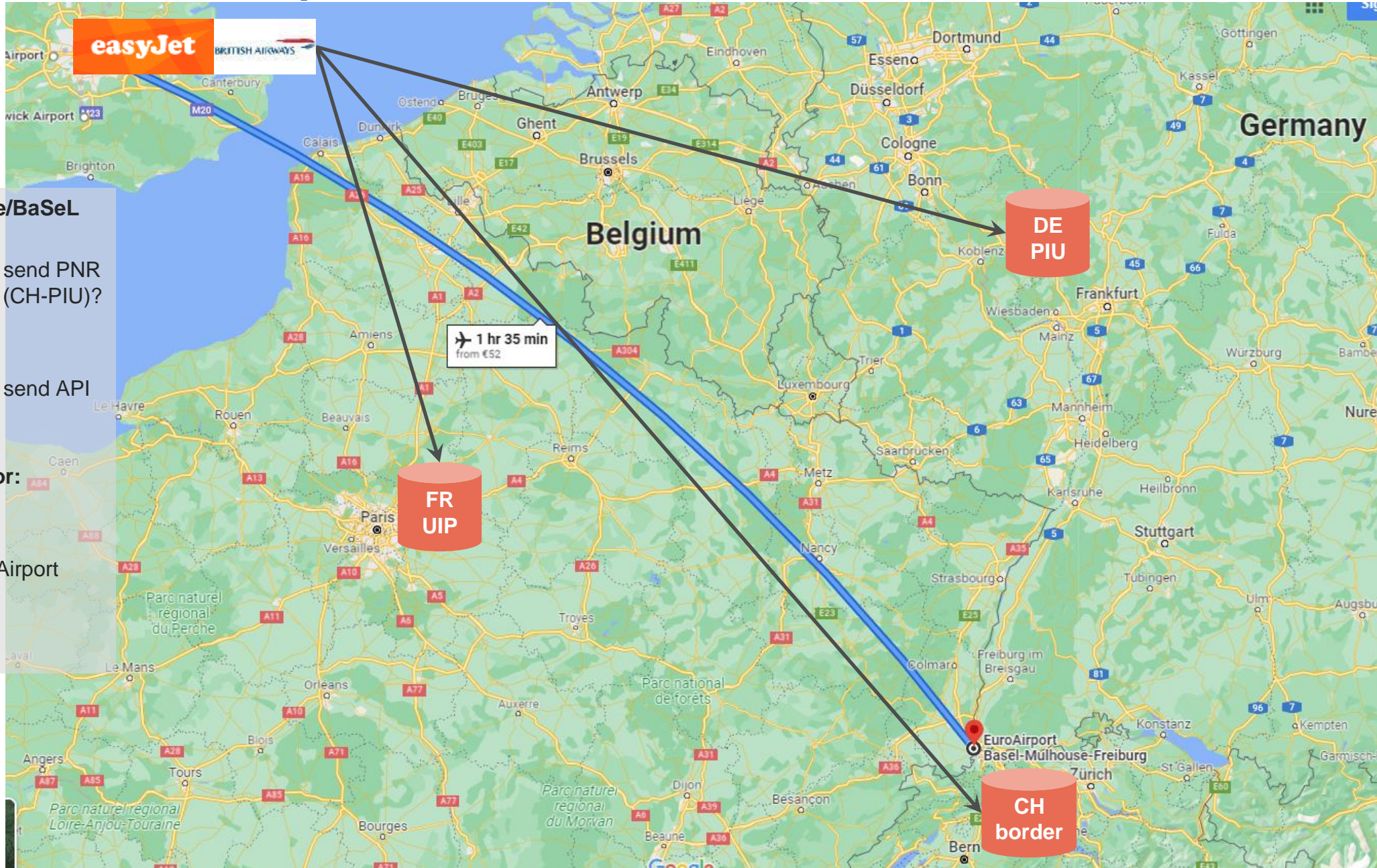# 'Building upon' the ETIAS query
(API router)

| Surname: ANDERSON |
| First Names: THOMAS |
| Gender: M |
| D.o.b.: 460614 |
| Nationality: USA |
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MS A

PIU | Border

MS B

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All passengers

ETIAS/VIS query

Carrier Interface

eu-LISA

All passengers

API Router

TCNs

EES ETIAS VIS *extract*

Check-in

Carrier Assistance Centre

FRONTEX
EUROPEAN BORDER AND COAST GUARD AGENCY

EU (only ?)

CS-SIS

*Query
No retention*

Europol data

European Commission

Subscription example

Flights London to MuLHouse/BaSeL

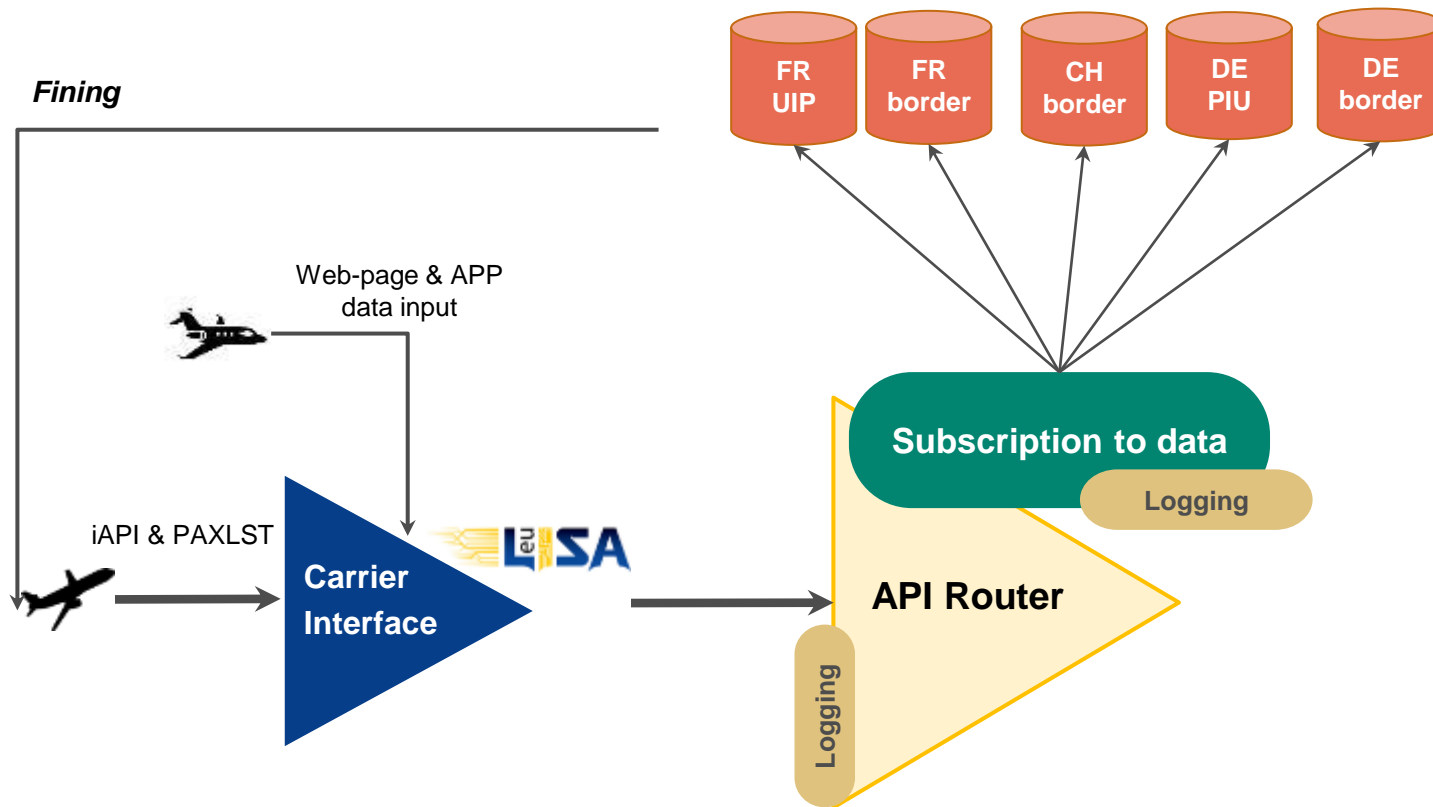- EasyJet/BritishAirways to send PNR data to FR-UIP, DE-PIU, (CH-PIU)?

If API-data is needed

- EasyJet/BritishAirways to send API data to FR, DE, CH

Possibly similar situations for:

- Geneva
- Maastricht-Aachen
- Scandinavian Mountains Airport
- Copenhagen?
- Luxembourg?

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'Building upon' the ETIAS query
API router subscription

Fining

Web-page & APP data input

iAPI & PAXLST

Carrier Interface

**L
eu
ISA**

Subscription to data

Logging

API Router

Logging

FR UIP

FR border

CH border

DE PIU

DE border

Subscription to data:
- Competent authorities subscribe to destination ports (departure ports) and means of transport to receive specific API data
- Multiple authorities may subscribe and receive the same data for different purposes
- Router could 'translate' from/to other formats (XML->PAXLST)

DE:
IATA=FRA;ICAO=EDDF
IATA=BSL;ICAP=LFSB
IATA=MLH;ICAO=LFSB
Etc.

FR:
IATA=CDG;ICAO=LFPG
IATA=BSL;ICAO=LFSB
IATA=MLH;ICAO=LFSB
IATA=EAP;ICAO=LFSB

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Modes of API data capture

API identity data are supposed to be taken from the Machine Readable Zone of the travel document …but they rarely are, the quality of data is limited

Manual data entry

Performed by the carrier at check-in counters

+ reliable data

- long check-ins (2 to 10 min for the check-in)

"Self-declaration"

Data entered manually by the passenger through the carrier's website/online/app check-in process

Data captured via a mobile app or a kiosk using the optical character recognition (OCR) of the MRZ information from a picture of the travel document

+ quick check-ins (max 20 sec), travel facilitation

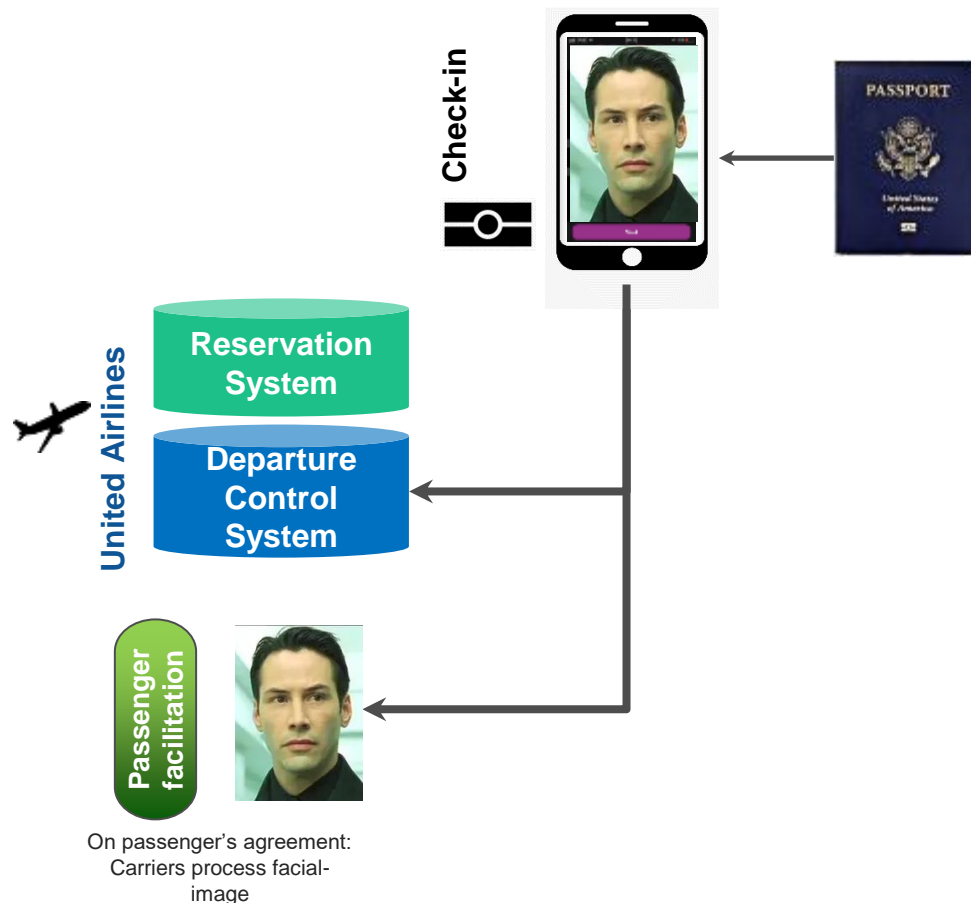**-** where passenger submits data unsupervised, ↗ errors

Automated capture

MRZ 'swipe' at the check-in desk

Carrier extracting the data from the RFID chip of the travel document

+ reliable data, travel facilitation

- Investing in (new) equipment

European Commission

Mandatory MRZ OCR capture
Possible RFID chip-data capture?

P<USAANDERSON<THOMAS<<<<<<<<<<<<<<<<<
L898902C36USA4606142M1210415<<<<<<<<<<10

Check-in

PASSPORT
United States of America

United Airlines

Reservation System

Departure Control System

Passenger facilitation

On passenger's agreement:
Carriers process facial-image

- ▶ **Identity data captured from the passport/identity-card/residence-permit chip by the passenger, at check-in, using a smartphone**

- ▶ **Carrier self-check-in web-interfaces and mobile applications to include the mandatory reading of MRZ/RFID chip**

- Identity data from the chip is authenticated. API identity data will be of high quality and complete.

- All EU Residence Permits have an RFID chip

- All EU identity cards will in the future have an RFID chip

- All currently produced smartphones can read RFID chip

- Unable to use a smartphone? check-in at the airport

- Facial-image is not cryptographically protected (not needed for API but potentially useful for contactless boarding processes)

- Fingerprints ARE cryptographically protected

European Commission

API data on outbound flights

all inbound flights

all outbound flights

- EU and in Schengen area
- EU but not yet fully applying Schengen acquis
- EU but not Schengen area
- Schengen Associated Country

European Commission