

Cross border digital identity in the EU

Oslo, 1 June 2017

European Commission Directorate-General MIGRATION and HOME AFFAIRS Unit B3 – Information Systems for Borders and Security



What this presentation will explain

- What are the information systems used at EU level in the area of migration.
- What is a person's digital identity in those systems?



PART 1

Introduction on Identity

Identity



Why do we care about identity?

- Legislation is person-centric
- Most (if not all) administrative processes start by establishing the identity of the requester and/or recipient of a measure

Identity



One person **#**One Name?

- Homonyms and homophones
- Transliterations
- Change of civil status

One person **X**One Travel Document (Passport)

- More than one regular passport
- Passports do not carry the history of the identity (in case of change) with them.
- Passports can be lost stolen forged counterfeited.







- **Identifiers:** facial image, fingerprint set, iris scan
- Identifiers can be "strong" or "weak"
- Risk of "not recognising" the real owner of his/her own biometrics => FRR, typically ~1%
- Risk of "confusing" the real owner with another person => FAR, typically 0,01%

Identity



Conclusion

- Establishing the identity is essential though not a trivial process. Difficulty is much higher for TCN's than for EU citizens.
- For (adult) EU citizens: identity can be established with Name, First Name, Date (& Place) of Birth, Gender + Digital picture.
- For (adult) TCN's: same as EU citizens + a "strong" biometric identifier.
- For both: use of the "identity triangle"

Identity triangle Example



L facial verification

ThirdCountryNational Live facial image Live fingerprints (1..10) A finger print verification



Schengen **MasterList** Passive Authentication



tinsearch

VIS Database facial image of VisaHolders Fingerprints (10) of VH

1:1 (token) verification

EES Database •Facial image •Fingerprints (4) VE only UKRAINE PASSPORT -0-

УКРАЇНА

ПАСПОРТ

eMRTD •Chip with facial image

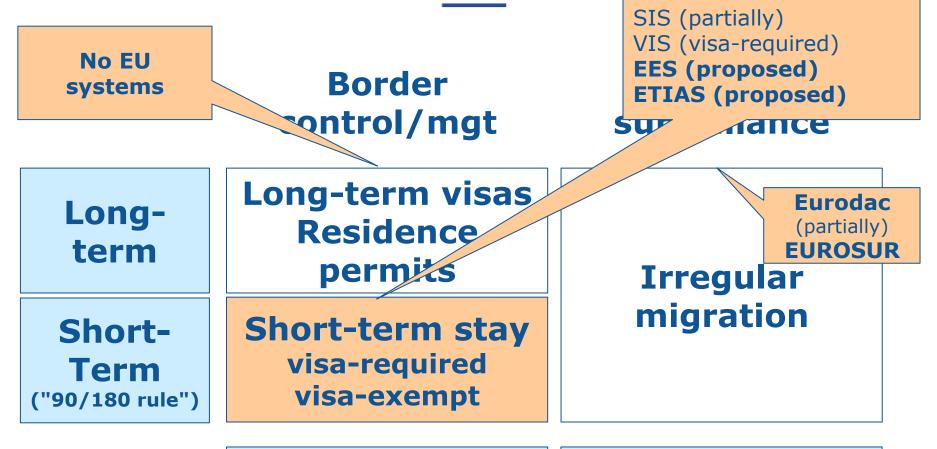


PART 2

Current Information Systems in the area of Home Affairs

This presentation is about











Original purpose of Eurodac (started in 2003) is to enable EU States to determine the responsibility for examining an asylum application by comparing fingerprint datasets.



Recast Regulation (EU) No 603/2013, getting into force On 20/07/2015. This evolution:

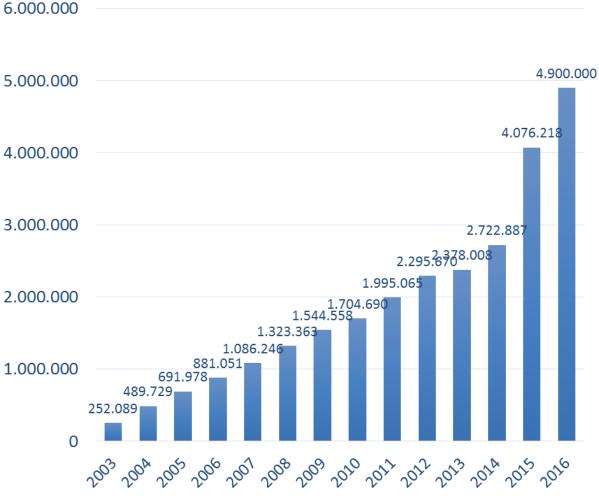
- ensured compatibility with the latest asylum legislation
- allowed law enforcement access to Eurodac under strictly limited circumstances
- set new time limits for fingerprint data to be transmitted

EURODAC



 Massive influx of immigrants / refugees in 2015 => Eurodac capacity pressures

- Traffic of the system has exponentially increased
- Since Feb. 2016 & following the EU-Turkey agreement, a decrease has been observed



EURODAC



- A proposal for a new Eurodac Regulation is currently under consultation as part of the new Dublin IV proposal.
- The **new Eurodac** Regulation:
 - Expands the purpose of Eurodac to facilitate returns and help tackle irregular migration
 - Minors over 6 shall be registered (now >14)
 - Expands the data model such as names, dates of birth, nationalities, identity details or travel documents, and facial images of individuals
 - Allows storing and searching data belonging to third-country nationals

Schengen Information System (SIS II) is a large scale IT system that:

Commission

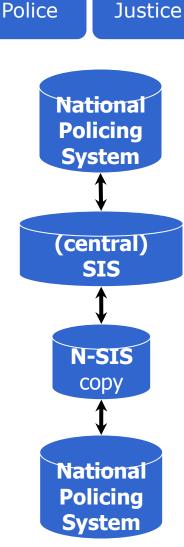
- Supports external border control and police cooperation in the EU Member States.
- enables the competent authorities to enter and consult alerts on certain categories of wanted or missing persons and objects.

Human required in order to determine that a hit on an individual or an object, subject to an alert, has been generated. The hit shall be communicated by the **SIRENE Bureau** of the <u>executing</u> Member State to the **SIRENE Bureau** of the <u>issuing</u> Member State.

The **SIRENE Bureaux** of the Member States are responsible for any **supplementary information exchange** and coordination of activities connected to SIS alerts.

Schengen Information System

Borders Customs Police 3 billion searches in 2015



European Commission

> SIS provides information to police, border guards, customs and judicial authorities on people and objects that are sought by the Member States.

More than 877 000 alerts on persons entered in SIS (19/05/17).

The alerts:

- Arrest for extradition: ~35.000
- Refusal of entry or stay in the Schengen area: ~487.000
- Missing persons: ~31.000 (adults); ~60.000 (minors)
- Persons to assist with a judicial procedure: ~112.00
- Persons for discreet or specific checks: ~77.000
- Lost, stolen, invalidated objects¹⁵



Different categories of **identity** in SIS:

- **Confirmed identity:** a confirmed identity means that the identity has been confirmed on the basis of genuine ID documents, passport or by statement from competent authorities;
- Not confirmed identity: a not confirmed identity means that there is not sufficient proof of the identity;
- Misused identity: a misused identity (surname, forename, date of birth) occurs if a person, entered in SIS, uses the identity of another real person. This can happen, for example, when a document is used to the detriment of the real owner – 159 misused identities in SIS
- Alias: Alias means an assumed identity used by a person known under other identities – 354 987 aliases in SIS



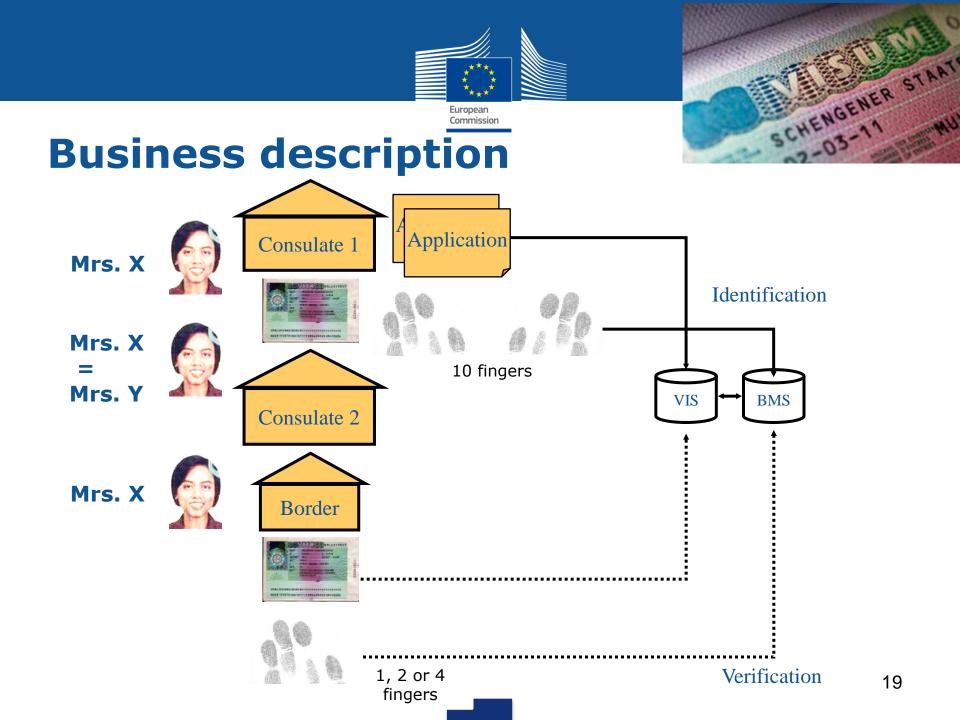
- Among next major changes to SIS: roll-out of an automated fingerprint identification system (AFIS): will help to reliably identify persons entering the Schengen area under false identities. Go live in 2018.
- New SIS legal framework currently under negotiation:
 - Provides for a mandatory fingerprint search if the identity of the person cannot be ascertained in any other way;
 - New alert category "unknown wanted person" allowing the creation of an SIS alert on the basis of fingerprints and/or palm prints. Currently alerts can only be created on the basis of alphanumeric data and fingerprints are only used to confirm the person's identity.





VIS Description

- Large-scale IT system for the exchange of data on short-stay visas between Schengen States
- Supports the common EU visa policy as well as the migration and border management policy by:
 - Preventing "visa shopping"
 - Assisting in the fight against irregular migration
 - Contributing to the prevention of threats to internal security
 - Bringing transparent and faster procedures for bona fide travellers





PART 3

Two proposed Information Systems in the area of Home Affairs: Entry/exit (EES) and European Travel Information and Autorisation System



EES: system to register entries and exits of all Third Country Nationals(TCN) in the Schengen area.

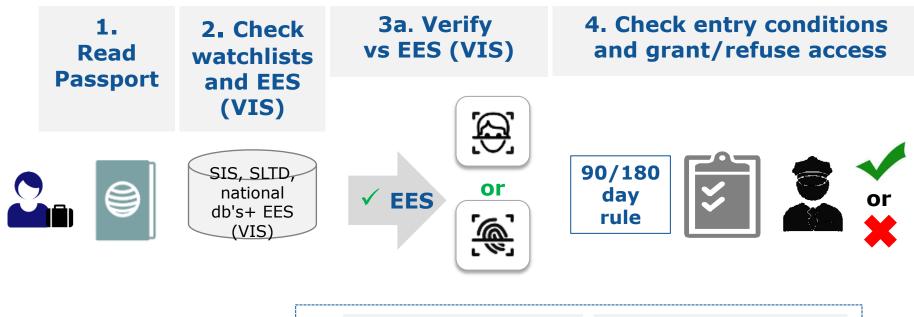
- Improve quality and efficiency of controls at external borders.
- Help MS deal with increasing traveller's flows without an increase of the number of border guards.
- Systematically identify overstayers
- Reinfoce internal security and fight against terrorism.

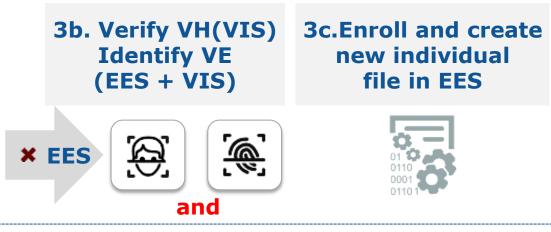
EES applies to TCN's only (both VE and VH)

- Not linked to "migrant crisis",
- Not an anti-terrorism tool.

Control Process

European Commission





22



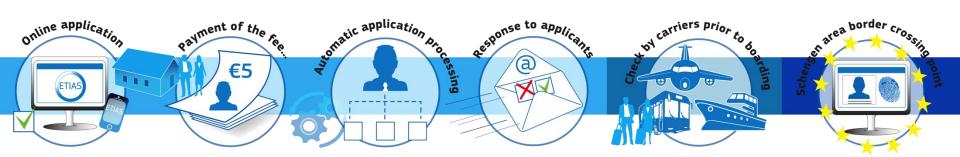


Biographical data: (*=Machine Readable Zone of Travel Document <u>)</u> 1. First names*	Data for visa-holder may be retrieved and imported directly from VIS		
 2. Surnames* 3. Date of birth* 4. Current nationalities* 5. Sex* 	<u>VISA-related data:</u> For short stay visa 11. VISA sticker number 12. Type of visa		
Travel document data: 7. Travel document number* 8. Travel document type* 9. Travel document country code* 10. Expiry date of travel document*	 13. VISA expiry date 14. Date of end of maximum duration of stay authorised by the visa (updated at each entry) 15. At first entry: number of entries and authorised period of stay (as indicated on the visa sticker) 		
Biometrics : 6. Facial image (from eMRTD or taken live) For Visa-exempt 6'. Four fingerprints	For touring visa 16. VISA sticker number 17. Type of visa 18. VISA expiry date		
At each entry/exit 19. Date and time of entry 20. Entry authoriser authority 21. Entry BCP 22. Date and time of exit 23. Exit BCP	Individual file' Entry/Exit records		





How will the ETIAS system work?



ETIAS application





Biographical data(*)

First name, Surname Surname at birth, if different Other names Date, place and country of birth Current nationality Sex First name(s) of the parents

Travel document data

Type of travel document Passport number Country of issuance Date of expiry of validity

Contact details

Home address Email address Telephone number

Education and occupation

Pre-determined list

Member State of first intended entry

Background questions

- 1. Threat to public health: infectious disease?
- 2. Convicted of a serious crime?
- 3. Recently been present in a war zone?
- 4. Previously been refused entry/visa, ordered to leave?

Additional information asked to some applicants for manual processing

Data collected on the application IP address

Data created by Central System

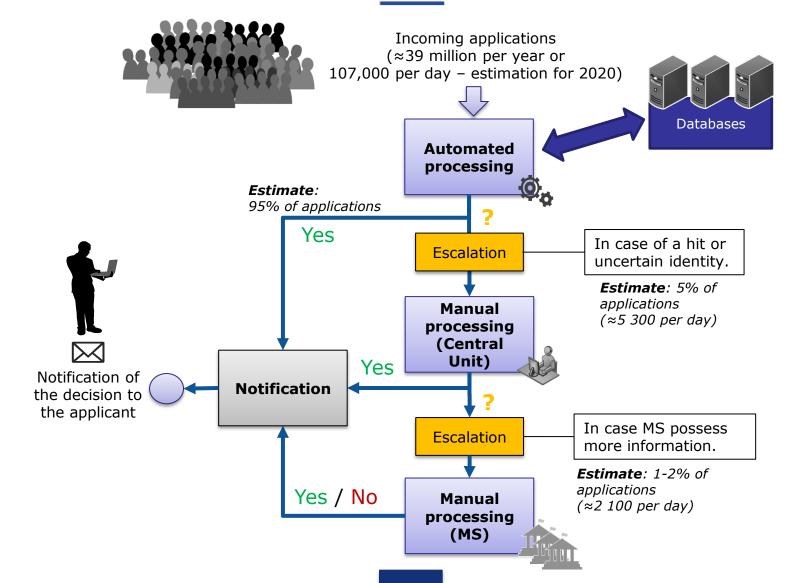
Application number Status information (request made) Date & time of submission Payment completion and reference

(*) There is a specific case for TCN who are family members of EU citizen

Decision-making process







VIS, EES and **ETIAS**



		European Commission	
	Before travelling	At the border	Entry conditions
	VIS	EES	
Visa Holders	Controls visa issuance	Duration of stay + place of entry	 valid visa (VIS) valid passport, remaining duration of
Identity manage- ment	Checked passport data + 10 fingerprints	Re-uses VIS data + facial image	stay (EES) Schengen Border Code conditions (sufficient resources, no
	ETIAS	EES	threat to public order,)
Visa Exempt	Controls travel authorisation	Duration of stay + place of entry	 valid ETIAS, other conditions like above
Identity manage- ment	Declared passport data	Checked passport data 4 fingerprints + facial image	27



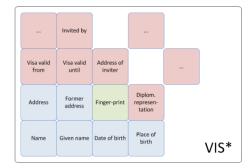
PART 4

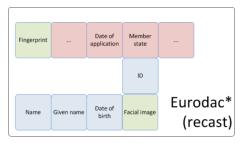
Evolution of how Identity is managed

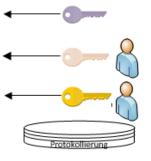
Data in SIS, VIS, Eurodac

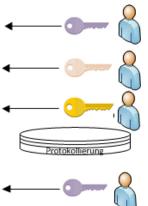


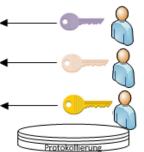
	Type of offence		Action to be taken	
	Valid until	Date of alert	Issuing authority	
Address	Fingerprint	Facial image	Kind of alert	
Name	Given Name	Date of birth	Place of birth	SIS

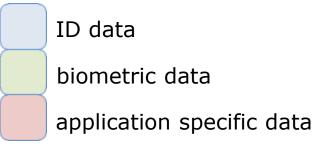








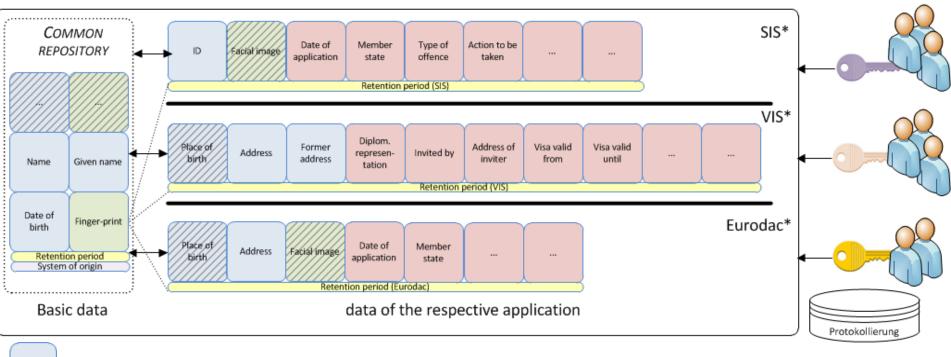




*much simplified

Integrated Identity Mgt





ID data

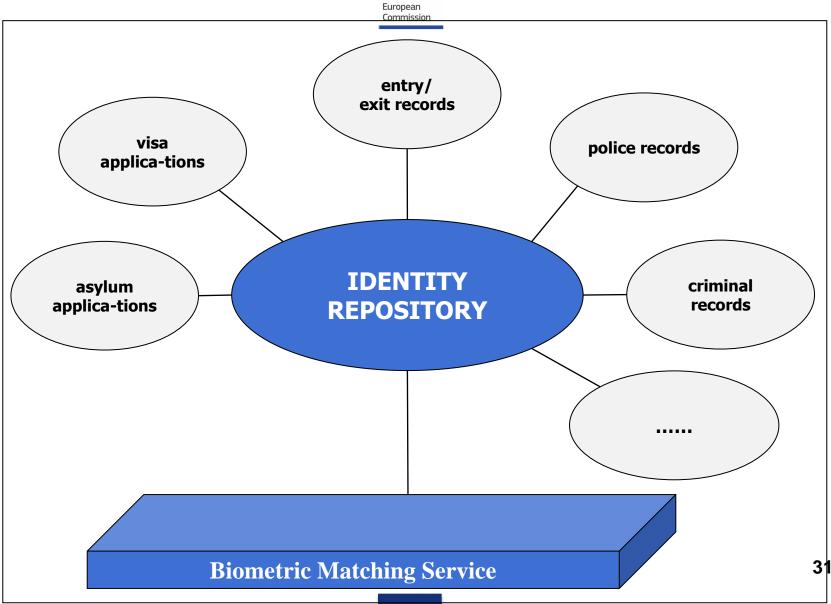
biometric data

application specific data

*much simplified

Integrated Identity Mgt (2)







PART 5

What to take with you?



- What are the information systems used at EU level in the area of migration.
 - Currently Eurodac, SIS, VIS. All three systems will evolve significantly within the next five years.
 - Additionally EES and ETIAS will be built.
- What is a person's digital identity in those systems?
 - Whenever possible, use the "identity triangle" with an identity check using more than one biometric identifier.
 - Identity is essentially based on a match with a biometric reference sample.
 - The identity will increasingly be managed "across" the different systems.



Thank you

Information: http://ec.europa.eu/dgs/home-affairs/what-wedo/policies/borders-and-visas/smart-borders/index_en.htm

philippe.van-triel@ec.europa.eu

Abbreviations



- BCP Border Control Posts
- FI Facial Image
- FP Fingerprints
- SBC Schengen Border Code
- TCN Third Country National
- VSN Visa Sticker Number