



# New EU eID cards regulation - a big move to keep a step ahead

The Identity Conference 2019

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Forewords

# The European Union and digital security

Forewords

Digital security legislative corpus overview

European Values

Cybersecurity

Digital Identities

# Forewords

## Digital security legislative corpus overview

### European Values

Art 8. - The Charter of Fundamental Rights of the European Union

General Data Protection Regulation (EU) 2016/679

ePrivacy Regulation *upcoming*

### Cybersecurity

NIS Directive (EU) 2016/1148

Cybersecurity Act Regulation (EU) 2019/881

Cybersecurity Competence centres *upcoming*

### Digital Identities

eIDAS Regulation (EU) 910/2014

Biometric Passport (EU) 2252/2004

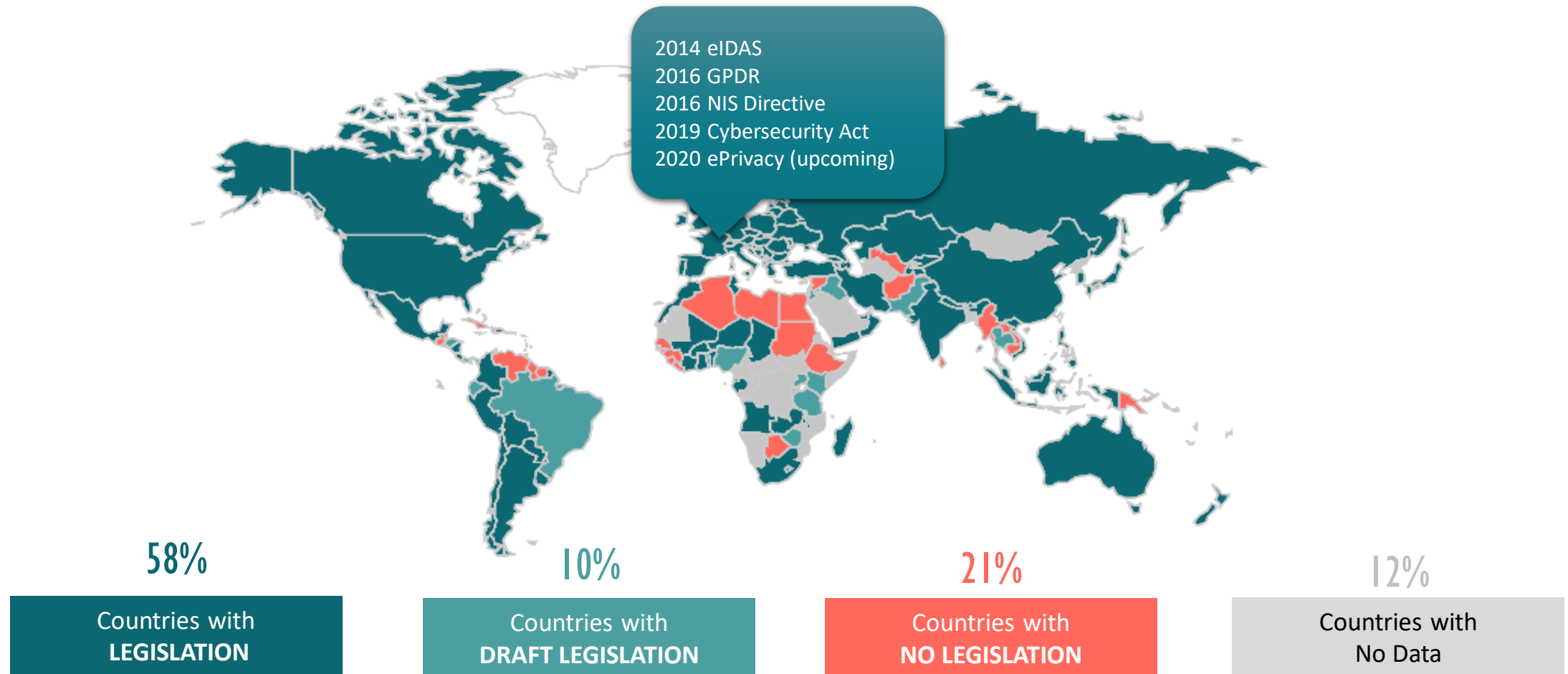
ID card and Residence documents *upcoming*

*Cryptography / Encryption*

*Identification, Authentication, Signature.*

# Forewords

## Digital security and identity: Europe as a normative power



Source: United Nations Conference on Trade and development

# State of play: ID cards and Residence documents in Europe

# I. State of play

Until now: unharmonised security requirement, no uniformised format

In UE 28

86

different versions of ID cards

181

Type of residence documents

## The Free Movement Directive (2004/38/EC)

stipulates the conditions that EU citizens and their third-country-national family members need to meet in order to exercise their right of free movement and residence within the Union



Does not regulate the format and minimum standards for the ID cards and residence documents

## I. State of play

Insufficient acceptance of IDcards and residence documents in another Member State

Public and private actors are legally obliged to treat all these  
ID documents as being of equal evidential value

If not accepted  
If confusion in evidential value of the document



Deter Citizens to exercise their right to move  
freely



# I. State of play

## Document fraud & lack of authentication

Some ID and residence documents do not meet the international document security standards

# I. State of play

## Document fraud & lack of authentication

Some ID and residence documents do not meet the international document security standards



- Prevents a fast and reliable authentication
- Affects negatively the interoperability and efficiency of cross-border checks

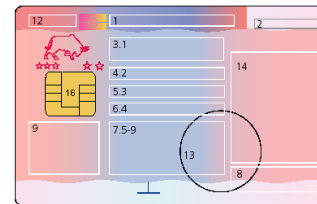
# I. State of play

## Regulatory framework

ID Document Type	EU Regulation	Remark
Biometric Passport	EC/2252/2004	Mandatory for all MS
Electronic Residence Permit, 3rd Country National	EC/13502/2/2007	Mandatory for all MS
Electronic Driving License	EC/383/2012	Voluntary
Electronic ID Card	EC/910/2014 (eIDAS)	Mandatory for all MS
Electronic ID Card and residence permit document	To be published in the OJUE on 12/07/2019	Mandatory for all MS

### Other EU Regulations

- **Financial Service Sector:** PSD-2
- **Data Protection:** GDPR – upcoming ePrivacy
- **Vehicle Registration Card**



E-Residence Permit



Booklets

# II. Mapping of eID programs in Europe

## II. Mapping of eID programs in Europe

### Deployment of eID cards in Europe

34

Countries members of the Council of Europe have deployed eID cards

## II. Mapping of eID programs in Europe

### Deployment of eID cards in Europe

Time window	Cumulated number of states	Country
End of CY 2000	1	Finland (1998, Pilot)
End of CY 2005	5	+ Estonia, Belgium, Austria, Sweden
End of CY 2010	17	+ Spain, Norway, Italy, Netherlands, Serbia, Portugal, Albania, Lichtenstein, Monaco, Lithuania, Switzerland, Germany
End of CY 2015	29	+ Latvia, Czech Rep., Ireland, Bosnia, Romania, Kosovo, Malta, Slovenia, Luxembourg, Croatia, Russia, Turkey
End of CY 2016	31	+ Hungary and Ukraine
2019	34	+ Poland, Bulgary, Greece

## II. Mapping of eID programs in Europe

### Evolution of eID in Europe

Main Feature	Short description	Reference in Europe
Increasing Document Security	Combine optical with electronic Security	Hungary (2016) Lithuania (2009)
Using Travel (ICAO) Standard	„Synergy“ with e-Passport in security, functionality and production flow	Sweden (2005) The Netherlands (2006)
Offering eGovernment Service	Online Authentication in the Web	Finland (1999) Estonia (2004)
Using eHealth Service	eID for electronic identification; eHealth for prescription/emergency data;	Belgium (2003) Turkey (2016)
Offering e-Tax Declaration	Part of the eGovernment Service	Portugal (2007)
Offering eTicketing Function	Public Transport	Italy (2010) Belgium (2011)
Offering eVoting Service	Part of the eGovernment Service	Estonia (2007) Portugal (2007)
Using eGates at Airport	Automatic Border Control	Spain (2006) Germany (2014)
Using ePension Service	Part of the eGovernment Service	Portugal (2007)

## II. Mapping of eID programs in Europe

### Detailed view 1/2

State	ePass	eRPC	eID	eDL	eH	eVRC
Albania	X	X	X			
Austria	X	X	X		on eID	X
Belgium	X	X	X		on eID	
Bosnia	X	X	X			
Croatia	X	X	X			
Czech Republic	X	X	X			
Estonia	X	X	X		on eID	
Finland	X	X	X			
France	X	X		stopped 2015	X	
Germany	X	X	X		X	
Greece	X	X	(2019)			
Hungary	X	X	X			
Ireland	X	X	X	X(?)	on eID	
Italy	X	X	X		on eID	
Kosovo	X	X	X			

**eRPC** = electronic Residence Permit Card; **eID** = electronic ID Card; **eDL** = electronic Driving License; **eH** = electronic Healthcare Card; **eVRC** = electronic Vehicle Registration Card



## II. Mapping of eID programs in Europe

### Detailed view 2/2

State	ePass	eRPC	eID	eDL	eH	eVRC
Lithuania	X	X	X			
Monaco	X	X	X			
Netherlands	X	X	X	X		
Norway	X	X	BankID			X
Poland	X	X	(2019)		X	
Portugal	X	X	X		on eID	
Romania	X	X	(2019)		X	
Serbia	X	X	X			X
Sweden	X	X	X			
Switzerland	X	X	SwissID		X	
Slovenia	X	X			X	
Spain	X	X	X		HPC	
Turkey	X	X	X		on eID	
UK	X	X			HPC	
Ukraine	X	X	X			

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## II. Mapping of eID programs in Europe

### Some challenges

Topic	References
Multi-Application = more than 100 applications with the eID-Card	Estonia, Belgium
Combination eID-Card w/ eHealth services	Turkey, Belgium, Italy
Combination eID-Card w/ Public Transport service	Estonia, Belgium, Italy
High volume roll out (means more than 10 Mill./year)	Turkey
eID-card with security weakness; SW update in the field	Estonia
eID function and services with ID-Card and with mobile phone	Estonia (PKI-SIM-Card)
Many others....	

# III. EU's rules to tighten the security of ID cards and EU citizen's residence documents

### III. EU rules

## Timeline of the regulation

Early 2018	Public consultation feedback based on a Inception Impact Assessment
17/04/2018	European Commission's proposal
19/02/2019	Informal agreement between the Council of the European Union and the European Parliament
04/04/2019	Text adopted by the European Parliament (1st and single reading)
22/05/2019	Text adopted by the Council of the European Union
12/07/2019	Publication to the official gazette
01/08/2019	Entry into force
01/08/2021	Binding and directly applicable in all Member States

# III. EU rules

## Main provisions

### Format

Credit card format (ID-1)

Mention « Identity Card » in national language + another UE language

Person' gender is optional

### Security and technical specifications

Shall contain a machine-readable zone (MRZ)

Specifications and minimum security standards ICAO Document 9303

Front side : The 2 letter code of the country issuing the card in a blue rectangle encircled by 12 yellow stars

# III. EU rules

## Security Storage

### Security storage

High security storage medium containing **facial image** and **2 fingerprints** in interoperable format

**Technical specifications = the uniform format for residence permits for third country nationals:**

- « sufficient capacity to guarantee the integrity, the authenticity and the confidentiality of the data
- Data to be accessible in contactless and secured form.
- Member states to exchange necessary information:
  - To authenticate the storage medium
  - Access and verify biometric data »

### Third party applications

eServices (ie. eGov, eBusiness) shall be physically or logically separated from the biometric data.

### III. EU rules

## Validity period & Phasing out

# Validity period

Min 5 years / Max 10 years

Exeptions:

- Less than 5 years for minors
- More than 10 years for persons aged 70 and above

## Phasing out

Former ID cards	Expiry or by 10 years
ID cards ≠ ICAO 9303 or/and functional MRZ	Expiry or by 5 years
Aged 70 = ICAO 9303 and functional MRZ	Expiry

# III. EU rules

## Residence cards

### Format and security requirements

Same as IDcard = ICAO 9303, MRZ, secure storage, contactless...

### Phasing out

<b>Former residence cards</b>	Expiry or by 5 years
<b>Former residence cards ID ≠ ICAO 9303 or/and functional MRZ</b>	Expiry or by 2 years





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