Overview of European regulators' anti-spoofing measures

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Focus on spoofing

- What is spoofing?

- Spoofing is not specifically addressed in the current European Union regulatory framework

- Many European countries have recently adopted measures to tackle spoofing

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Overview of measures adopted by European regulators

Focus of research:

- 15 European countries
  (14 EU member states + UK)
- Measures adopted by NRAs
- Measures tackling scams using CLI spoofing

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Overview of measures adopted by European regulators to combat CLI spoofing

Focus of research:

- 15 European countries
  (14 EU member states + UK)
- Measures adopted by NRAs
- Measures tackling scams using CLI spoofing

Key findings:

- Regulators in 12 of 15 studied countries
  adopted measures to fight illegal spoofing
- Most measures were adopted
  in 2024-2025
- Variety of measures
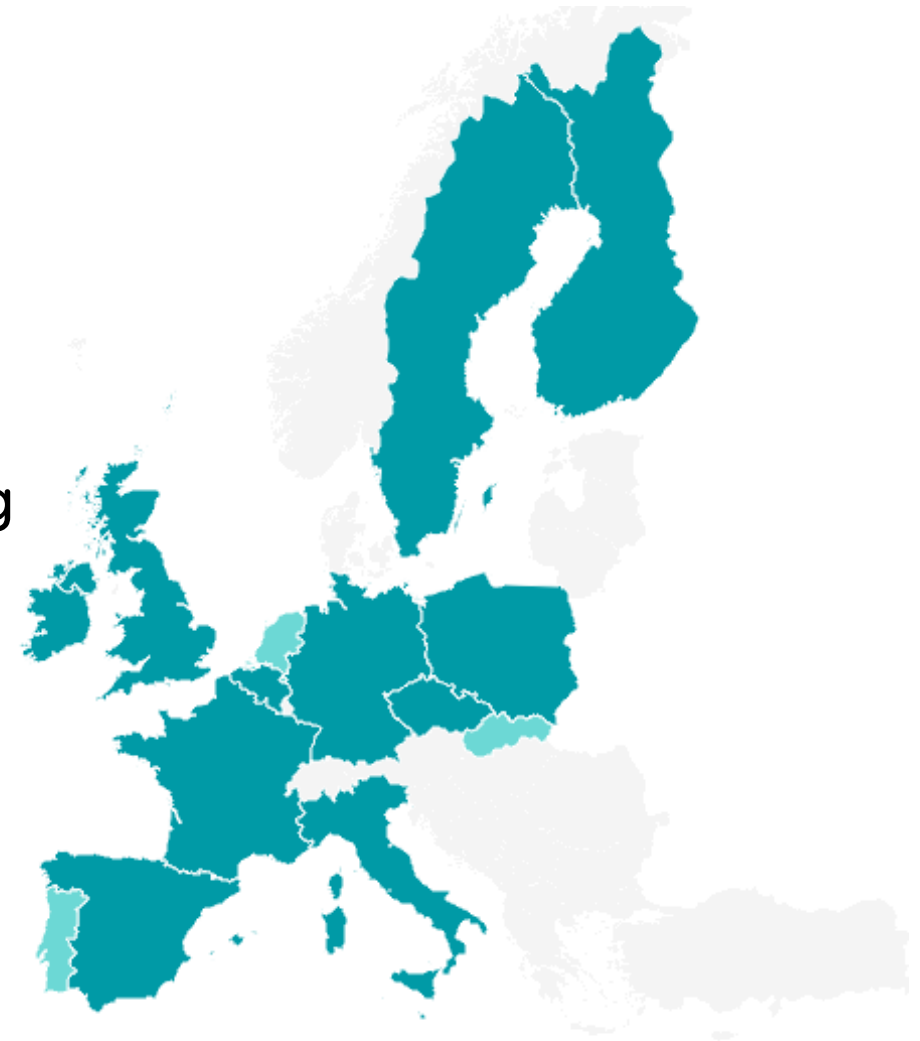
● NRA adopted measures to combat illegal spoofing

● No measures adopted

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Blocking incoming international calls using a national CLI

Countries	Blocking international calls with a national CLI
Belgium	✓
Czech Republic	✓
Finland	✓
France	
Germany	
Ireland	✓
Italy	✓
Malta	✓
Netherlands	
Poland	✓
Portugal	
Slovakia	
Spain	✓
Sweden	✓
United Kingdom	✓

- Operators should block calls originating from abroad and using a national number as CLI

- Blocking of fixed numbers is more widespread, often with exceptions

- Some national measures also require blocking mobile numbers, while addressing the issue of legitimate roaming users

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Do-not-originate registry

Countries	Do-not-originate registry
Belgium	
Czech Republic	✓
Finland	
France	
Germany	✓
Ireland	✓
Italy	
Malta	
Netherlands	
Poland	✓
Portugal	
Slovakia	
Spain	
Sweden	
United Kingdom	✓

- National database of numbers that can never be used for outgoing calls

- Examples include inbound-only numbers of public administrations, premium numbers, emergency numbers, numbers for directory services...

Protected numbers registry

Countries	Protected numbers registry
Belgium	
Czech Republic	✓
Finland	
France	
Germany	
Ireland	✓
Italy	
Malta	
Netherlands	
Poland	
Portugal	
Slovakia	
Spain	✓
Sweden	
United Kingdom	

- List of phone numbers that the NRA did not assign, and which cannot be used to originate calls

- Examples include calls when the CLI field is empty, not assigned to any service or not consistent with the national numbering plan

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SMS sender ID registry

Countries	SMS sender ID registry
Belgium	
Czech Republic	
Finland	✓
France	
Germany	
Ireland	✓
Italy	✓
Malta	
Netherlands	
Poland	✓
Portugal	
Slovakia	
Spain	✓
Sweden	
United Kingdom	✓

- Registry of alphanumeric SMS sender ID

- Operators must block SMS with a sender ID that is not registered, or when the sender is not the registered source

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STIR/SHAKEN

Countries	STIR/ SHAKEN
Belgium	
Czech Republic	
Finland	
France	✓
Germany	
Ireland	
Italy	
Malta	
Netherlands	
Poland	
Portugal	
Slovakia	
Spain	
Sweden	
United Kingdom	

- STIR/SHAKEN requires providers to authenticate and digitally sign the caller's ID at the call origination and verify it at the termination

- Works on all-IP networks (not on legacy PSTN networks)

- French operators implemented STIR/SHAKEN in October 2024

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Overview of measures adopted by European NRAs to combat CLI spoofing

Countries	Blocking international calls with a national CLI	Do-not-originate registry	Protected numbers registry	SMS sender ID registry	STIR/ SHAKEN
Belgium	✓				
Czech Republic	✓	✓	✓		
Finland	✓			✓	
France					✓
Germany		✓			
Ireland	✓	✓	✓	✓	
Italy	✓			✓	
Malta	✓				
Netherlands					
Poland	✓	✓		✓	
Portugal					
Slovakia					
Spain	✓		✓	✓	
Sweden	✓				
United Kingdom	✓	✓		✓	

Other measures identified:

- Voice firewalls
- SMS filters
- Information and awareness campaigns
- Industry initiatives

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Thank you!

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