



Overview of EU cybersecurity regulatory instruments and ETSI support

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14:00 SESSION D1-3: REGULATION STATE OF THE NATION



Basics

- ▼ The European Union among 27 Member States consists of 7 decision-making institutions plus over 50 specialised bodies.
 - Policy and law-making: European Parliament, European Council, Council of the European Union, European Commission
 - ♥ Complemented by: Court of Justice, European Central Bank, Court of Auditors
 - ▼ Noteworthy additional permanent implementing agency European Union Agency for Cybersecurity (ENISA)
- The EU policy and law-making environment is complex and constantly evolving with activities producing different kinds of legislative, regulatory, strategy and funding instruments in various stages of adoption with different force and effect
- ♥ CEPT countries must also be accommodated 46 Member States including Norway, Switzerland, UK
- ETSI operates both as a global international industry standards organization and a European Standardisation Organization (ESO) that provides normative standards, specifications to support European Union (EU) legislation and public policies
 - The ETSI ESO role is shared with CEN & CENELEC (European Committee for Standardization & European Committee for Electrotechnical Standardization both associations of European National Standardization Bodies)
- There are more than 400 different EU ICT legislative instruments relevant to ETSI technical groups which have produced more than 1600 supporting standards
 - ▼ EU Standards Rolling Plan provides additional visibility of 42 EU ICT standards sectors of interest
- ▼ The ETSI Board has approved the formation of a continuing group activity to discover and identity relevant EU legislative instruments that help inform ETSI standards work see attached spreadsheet



Wordcloud perspective on EU ICT legislative instruments



WordCloud produced from EU Legislative Instrument Spreadsheet



EU Cybersecurity Legislative Instruments and Metrics

38	Regulations	44	Communications
24	Regulations, proposed	1	Code of practice
60	Directives	2	Reports
6	Directives, proposed	1	Briefing
18	Decisions	2	Studies
7	Decisions, proposed	3	Guides
3	Resolutions	1	Notice
3	Conclusions	2	Staff Working Documents
9	Recommendations	2	Judicial findings

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42 EU ICT Rolling Plan sectors

- Data economy
- Cybersecurity / network and information security
- e-privacy
- 5G and beyond
- Cloud and edge computing
- Data interoperability
- Internet of Things
- Electronic identification and trust services including e-signatures
- e-infrastructures for data and computing intensive science
- Broadband infrastructure mapping
- Accessibility of ict products and services
- Artificial Intelligence
- European global navigation satellite system (EGNSS)
- Quantum technologies
- e-health, healthy living and ageing
- Digital skills
- Digital learning
- e-government
- e-call
- Pandemic preparedness
- Safety, transparency and due process online

- Emergency communication and public warning systems
- e-procurement pre- and post award
- e-invoicing
- Retail payments
- Preservation of digital cinema
- Fintech and regtech standardisation
- Blockchain and distributed ledger technologies
- Metaverse
- Smart grids and smart metering
- Smart and sustainable cities and communities
- ICT environmental impact
- European electronic toll service (EETS)
- Intelligent Transport Systems
- Digitisation of european industry
- Robotics an autonomous systems
- Construction-building information modelling
- Common information sharing environment (CISE) for the EU maritime domain
- Water management digitalisation
- Single european sky
- u-space
- Circular economy

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Major EU Cybersecurity Instruments

Measures for a high common level of cybersecurity (NIS2)

- ♥ Digital Operational Resilience Act (DORA)

Communications Technology Certification (CSA, EUCC)

♥ Certification regimes for: radio equipment, IoT, Cloud Services, 5G, Common Criteria

General Data Protection Regulation (GDPR)

Cyber Resilience Act (CRA) [proposed]

Al Act [proposed]

Digital Services Act (DSA)

♥ Code of Practice on Disinformation

Ref: <u>EU Cybersecurity Policies</u>

Critical Technologies risk assessment



ETSI Metrics for European Norms and Telecom Standards

EN pub	EN dev	ETS pub	ETS dev	ALL WI	Group	Name
38	6	0	0	211	ATTM	Access, Terminals, Transmission and Multiplexing
34	4	0	0	359	BRAN	Broadband Radio Access Networks
103	0	37	0	814	BROADCAST	Broadcasting
1	6	0	0	102	CABLE	Integrated broadband cable telecommunication networks
1	0	0	0	123	CYBER	Cyber Security
150	1	0	0	264	DECT	Digital Enhanced Cordless Telecommunications
88	12	28	0	259	EE	Environmental Engineering
0	1	0	0	65	EMTEL	Emergency Communications
621	95	0	0	1370	ERM	EMC and Radio Spectrum Matters
54	12	0	0	430	ESI	Electronic Signatures and Infrastructures
7	1	0	0	198	HF	Human Factors
0	0	0	0	294	INT	Core Network and Interoperability Testing
22	3	0	0	523	ITS	Intelligent Transport Systems
0	0	0	0	323	LI	Lawful Interception
77	7	0	0	125	MSG	Mobile Standards Group
0	0	1	0	494	MTS	Methods for Testing & Specification
4	0	0	0	49	RRS	Reconfigurable Radio Systems
2	1	0	0	72	RT	Railway telecommunications
1	0	0	0	8	SAFETY	Electronic communications and systems Safety
74	21	8	0	269	SES	Satellite Earth Stations & Systems
0	0	0	0	1018	SET	Secure Element Technologies
0	0	0	0	20	SmartBAN	Smart Body Area Network
0	1	0	0	152	SmartM2M	Smart Machine-to-Machine communications
0	0	0	0	412	STQ	Speech and media Transmission Quality
144	2	38	0	515	TCCE	TETRA and Critical Communications Evolution
0	0	0	0	64	USER	User Group
1421	173	112	0	8533		ETSI Total

European = 1706 dev = Approval, Drafting, New Work Item

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New ETSI project: mapping standards URI to instrument ELI

Ref	ETSI URI	EU ELI
NIS	https://www.etsi.org/deliver/etsi_tr/103400_103499/103456/01.01.01_60/tr_103456v010101p.pdf	https://eur-lex.europa.eu/eli/dir/2016/1148/oj
IoT EN	https://www.etsi.org/deliver/etsi_en/303600_303699/303645/02.01.01_60/en_303645v020101p.pdf	https://eur-lex.europa.eu/eli/reg/2016/679/2016-05-04
IoT guide	https://www.etsi.org/deliver/etsi_tr/103600_103699/103621/01.01.01_60/tr_103621v010101p.pdf	http://data.europa.eu/eli/dir/2019/770/oj
IoT guide	https://www.etsi.org/deliver/etsi_tr/103600_103699/103621/01.02.01_60/tr_103621v010201p.pdf	http://data.europa.eu/eli/dir/2019/770/oj
Elections	https://www.etsi.org/deliver/etsi_tr/103700_103799/103741/01.01.01_60/tr_103741v010101p.pdf	https://eur-lex.europa.eu/eli/reg/2016/679/2016-05-04
Threats	https://www.etsi.org/deliver/etsi_tr/103300_103399/103331/01.01.01_60/tr_103331v010101p.pdf	https://eur-lex.europa.eu/eli/dir/2016/1148/oj
Threats	https://www.etsi.org/deliver/etsi_tr/103300_103399/103331/01.02.01_60/tr_103331v010201p.pdf	https://eur-lex.europa.eu/eli/dir/2016/1148/oj
gateway	https://www.etsi.org/deliver/etsi_tr/103400_103499/103421/01.01_60/tr_103421v010101p.pdf	https://eur-lex.europa.eu/eli/dir/2002/58/2009-12-19
design	https://www.etsi.org/deliver/etsi_tr/103300_103399/103369/01.01.01_60/tr_103369v010101p.pdf	https://eur-lex.europa.eu/eli/dir/2016/1148/oj
critical inf	https://www.etsi.org/deliver/etsi_tr/103300_103399/103303/01.01.01_60/tr_103303v010101p.pdf	https://eur-lex.europa.eu/eli/dir/2008/114/oj
smart mtr	https://www.etsi.org/deliver/etsi_tr/103600_103699/103644/01.01.01_60/tr_103644v010101p.pdf	https://eur-lex.europa.eu/eli/dir/2006/42/2019-07-26
smart mtr	https://www.etsi.org/deliver/etsi_tr/103600_103699/103644/01.01.01_60/tr_103644v010101p.pdf	https://eur-lex.europa.eu/eli/dir/2014/35/oj
smart mtr	https://www.etsi.org/deliver/etsi_tr/103600_103699/103644/01.02.01_60/tr_103644v010201p.pdf	https://eur-lex.europa.eu/eli/dir/2006/42/2019-07-26
smart mtr	https://www.etsi.org/deliver/etsi_tr/103600_103699/103644/01.02.01_60/tr_103644v010201p.pdf	https://eur-lex.europa.eu/eli/dir/2014/35/oj
privacy	https://www.etsi.org/deliver/etsi_tr/103300_103399/103370/01.01.01_60/tr_103370v010101p.pdf	https://eur-lex.europa.eu/eli/reg/2016/679/2016-05-04
privacy	https://www.etsi.org/deliver/etsi_tr/103300_103399/103370/01.01.01_60/tr_103370v010101p.pdf	https://eur-lex.europa.eu/eli/dir/2002/58/2009-12-19
csc5	https://www.etsi.org/deliver/etsi_tr/103300_103399/10330505/01.01.01_60/tr_10330505v010101p.pdf	https://eur-lex.europa.eu/eli/reg/2016/679/2016-05-04
PII	https://www.etsi.org/deliver/etsi_tr/103300_103399/103304/01.01.01_60/tr_103304v010101p.pdf	https://eur-lex.europa.eu/eli/reg/2014/910/oj
PII	https://www.etsi.org/deliver/etsi_tr/103300_103399/103304/01.01.01_60/tr_103304v010101p.pdf	https://eur-lex.europa.eu/eli/reg/2016/679/2016-05-04



Questions

Pre-submitted

- Is this massive set of regulations, and (somehow) related specifications, the way you want your society governed/influenced?
- Is the good work and huge expertise of the many professionals really being optimally applied?
- How do YOU want ETSI to help? Remember that it is a member-driven organisation?

My question

• Considering the RAND-NSA finding in 1967 that cybersecurity was fundamentally not possible which has resulted (finally) today in most jurisdictions adopting Zero Trust Models, what are the implications for those who do not?