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Cyber security initiatives in European Union and Greece

The role of the Regulators

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Agenda

- Cyberspace challenges
- EU security initiatives
- EU strategic priorities
- Achieving cyber resilience in European Union
- ENISA – An Agency for pan-European cooperation
- Greece – Authorities and Responsibilities

Cyberspace

- has an impact on all parts of **society** and key sectors of **economy**
- should remain **open, free and safe**, protected by incidents and misuse
- it is **vulnerable**; cyber security incidents can disrupt the supply of essential services (water, healthcare, electricity, mobile services, government services, bank transactions, etc.)

Cyber security involves practically everyone:

governments, private companies, organisations, banks, institutions, citizens and many other organised groups of interest.

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Cyber security initiatives in EU

*The strategy of the EU: **"An Open, Safe and Secure Cyberspace"***

The EU's vision and the actions required to make the EU's online environment the safest in the world:

- defines **principles** for cyber security
- Suggests strategic **priorities** and **actions**
- addresses **international cooperation** as a key priority

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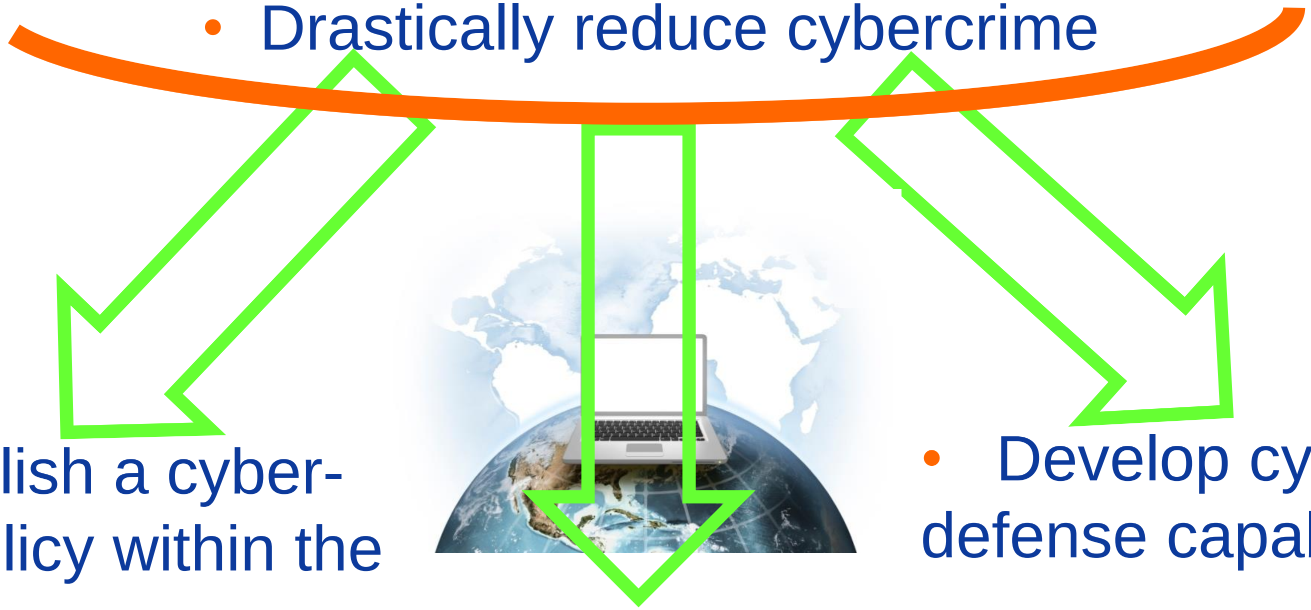
EU Strategic priorities

- Achieve cyber resilience
- Drastically reduce cybercrime



- Establish a cyber-space policy within the EU.
- Develop cyber defense capabilities
- Develop the industrial and technology resources for cyber security

EU initiatives – Achieving cyber resilience

Proposal for a Directive on a common high level of Network and Information Security (NIS)

Establish common minimum requirements for NIS at national level.
The Member States will be obliged to:

- designate national competent authorities for NIS
- set up a well functioning CERT (Computer Emergency Response Team)
- adopt a national NIS strategy and a national NIS cooperation plan.
- Enable information sharing and mutual assistance among the national NIS competent authorities

EU initiatives – Achieving cyber resilience

Proposal for a Directive on a common high level of network and Information Security (NIS)

Players in a number of key areas (energy, transport, banking, stock exchanges etc)

- Assess cyber security **risks**, ensure n/w and information systems are reliable and resilient via appropriate **risk management**
- **Report incidents** to the national NIS authorities, incidents with significant impact on the continuity of core services and supply of goods, relying on n/w and information systems

EU initiatives – Achieving cyber resilience

Framework Directive – Article 13a and b of Directive 2002/21/EC

(as amended by 2009/140 Directive)

Member States shall ensure that providers of Networks:

- Take measures and manage risks posed to security of networks and services.
- Guarantee the integrity of their networks,& ensure continuity of supply of services
- Notify the competent National Regulatory Authority of a breach of security or loss of integrity

Implementation by the Member States

- Transposition in national law
- Issuance of specific regulation
- Implementation of art 13 facilitated by ENISA

ENISA
Achieving cyber resilience

ENISA: European Union Agency for Network and Information Security

- The Agency's Mission is essential to achieve a high and effective level of Network and Information Security within the European Union.
- Together with the EU-institutions and the Member States, ENISA seeks to develop a culture of Network and Information Security for the benefit of citizens, consumers, business and public sector organisations in the European Union.
- ENISA is helping the European Commission, the Member States and the business community to address, respond and especially to **prevent** Network & Information Security problems.

ENISA
Achieving cyber resilience

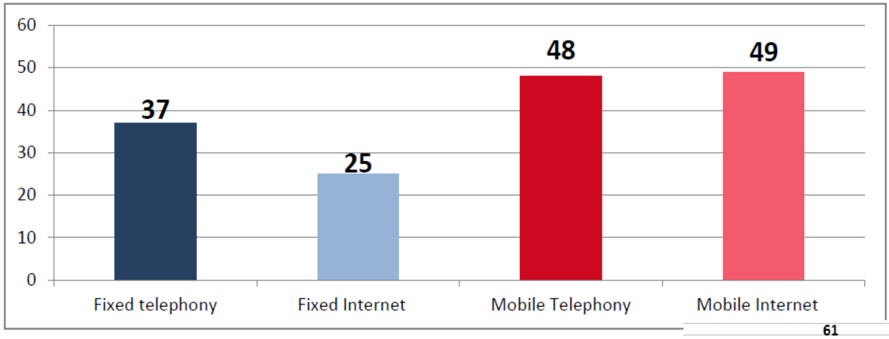
Framework Directive – Article 13a and b of Directive 2002/21/EC

Publishes an annual report to provide industry and government bodies in the EU with data about significant incidents.

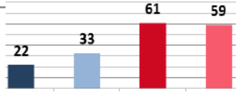
Once a year, NRAs submit to the Commission and ENISA a summary report of the breach notifications received.

Reports are submitted according to ENISA's guidelines "Technical Guidelines for Incident Reporting".

ENISA - Annual Incident Reports 2012



Incidents per service (percentage)



(2011)

- Mobile networks (mobile telephony or mobile Internet) most affected: about 50 % of the incidents respectively.
- Mobile network outages affect many users (around 1,8 million users per incident).
- Emergency Services are affected by incidents: In 37 % of the incidents there was impact on emergency calls using the emergency number 112.

Source: ENISA - Annual Incident Reports 2012
Analysis of Article 13a annual incident reports
August 2013

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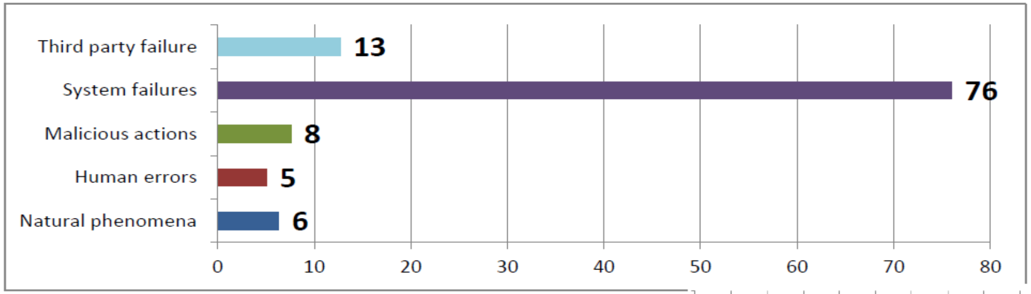
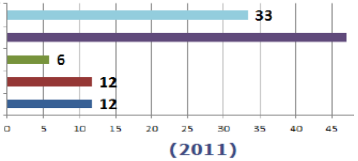
ENISA - Annual Incident Reports 2012

- 76 % System failures. Assets most affected were **switches (e.g. routers and local exchange points)** and home location registers.
- Incidents categorized with root cause third party failures, mostly power supply failures, affected around **2.8 Million user connections** on average.
- **Natural phenomena** cause long lasting incidents: Incidents caused by natural phenomena (mainly storms and heavy snowfall) lasted around 36 hours on average.
- **Overload and power failures** have most impact in terms of number of users and time duration.



Incidents per root cause category (percentage).



Source: ENISA - Annual Incident Reports 2012 Analysis of Article 13a annual incident reports August 2013

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Cyber Security Management in Greece

CERT name	Date of establishment	Constituency	Additional information
NCERT-GR		National / Governmental	www.cert.gov.gr
AUTH-CERT	Q2 2004	Research and Education	www.auth.gr
FORTHcert	Q3 2007	Service Provider	www.forth.gr/forthcert
GRNET-CERT	Q2 2000	Research and Education	http://cert.grnet.gr

Organization	Responsibilities	Additional information
ADAE **“Privacy”**	Assurance of wired, wireless and mobile communications privacy	www.adae.gr
EETT **“Telecoms”**	Regulation and supervision of telecommunications and postal market	www.eett.gr
DPA **“Data”**	Protection of personal data	www.dpa.gr
Hellenic Police	Prevention, investigation and repression of crimes that are committed through means of electronic communication	http://www.astynomia.gr/index.php?option=ozo_content&perform=view&id=8194&Itemid=378&lang=

Implementation of Article 13 in Greece

Hellenic Authority for Communication Security and Privacy (ADAE)

- Issues regulation related to the security measures according to art 13
- Performs audits related to conformity with aforementioned regulation
- Forwards audit reports to EETT

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Implementation of Article 13 in Greece

Hellenic Telecommunications and Post Commission (EETT)

- Receives significant incident reports from providers in the context of art 13a and forwards them to ADAE
- Submits to ENISA the annual report
- May issue binding instructions related to the security measures of art. 13
- May ask from operators related data in order to assess conformity with security measures of art.13

Moreover:

- Produces regulation according to Directive 2002/22 related to the availability of telephone services in cases of force majeure and catastrophic network breakdown
- Performs audits related to conformity with regulation

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EETT in more detail…

EETT is responsible for the management and assignment of the **.gr Domain Names**

- If a law enforcement agency detects webpages with illegal content, EETT can order the hosting provider to **remove this webpage**
- If the hosting provider cannot be located and the domain name of the web page is a *.gr* domain name, the law enforcement agency can order EETT at first to **temporarily deactivate** the assigned domain name and secondarily to delete the assigned domain name.
- In cases where the webpage is not hosted in Greece and the domain name is not .gr domain name, access of users in Greece to this webpage via the ISPs **can be blocked.**

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Greece: Police Cybercrime Division

A Division of Hellenic Police.
Mission: to prevent, investigate and repress crimes that are committed through the internet or other means of electronic communication.

The cybercrime unit, among others, deals with:

- crimes against juveniles,
- illegal penetration in computer systems,
- theft, destruction or illegal transport of software, digital data or audiovisual material,
- crimes against the privacy of electronic communications

Source: Cybercrime unit webpage

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Thank you for your attention

Costas Louropoulos

President of EETT

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