

WWW.CERT.RO

CENTRUL NATIONAL DE RASPUNS LA INCIDENTE DE SECURITATE CIBERNETICA
ROMANIAN NATIONAL COMPUTER SECURITY INCIDENT RESPONSE TEAM

CERT-RO – short summary

CERT-RO

Established by Government Decision no. 494/2011

Nationwide incident response

Romanian national cyberspace

> **Prevent Analyze Identify** Respond

Independent structure

Key activities



Awareness Campaigns

National Point of Contact

Security Audits

Early
Warning
System

Incident Response Activities

Our work



Main Services

PROACTIVE	REACTIVE	SUPPORT
Alerts upon new threats and vulnerabilities that	Alerts and warns of cyber security incidents	Awareness campaigns
could affect national cyber space	that impact Romanian organisations	Support for other organisations for setting up CERT structures
Notifies on risks of cyber security incidents	Responds to incidents and coordinates efforts to minimize impact	Consultancy for securing critical infrastructure
Monitors vulnerabilities on different technologies	Investigates and researches malware and cyber incidents	Expertise for developing policy, regulation and other strategies
Performs internal cyber security audits for public institutions upon request		

Legal grounds & Regulations



National Legislative Acts concerning the cyber security area:

Government Decision no. 494/2011 for the establishment of CERT-RO - computer security incident response team, a specialized organiz ation responsible for preventing, analyzing, identifying and reacting to cyber incidents in Romania.

Government Decision no. 271/2013 for the approval of the Romani an National Cyber Security Strategy and National Action Plan for the implementation of the National Cyber Security System

Legal grounds & Regulations



Government Decisionno.245, from April 7th 2015, for the approval of the National Strategy regarding the Digital Agenda for Romania 2 020

NIS Directive, from August 2016, Directive of the European Parliam ent and of the Council concerning measures for a high common level of security of network and information systems across the Union

Romanian Cyber Security Strategy (1)



• GD271/2013

- Establishes the objectives, principles and major directions of action in prevention and response to threats, vulnerabilities and risks to the Romanian cyberspace.
- Establishes the National Cyber Security System (SNSC)
 - a cooperation framework at national level
 - consists of public authorities and institutions with responsibilities and capabilities on cyber security.
 - defines also cooperation with academia, private entities, associations and NGOs

Romanian Cyber Security Strategy (2)



• Establishes the Operative Council on Cyber Security (COSC) as the coordination body consisting of representatives from ministries and other national institutions and competent authorities.

• Oct 2017 - Ministry of Communications launched in public consultation a law proposal for transposing the NIS directive.

Romanian Cyber Security Strategy (3)



- May 2018 Law was approved by the Parliament (end May 2 018)
- July 2018 The law was contested at Constitutional Court
- **November 2018** NIS Directive is in the process of approval once again in the Romanian Parliament.
- Reached the decisional chamber.

Challenges



Lack of any law enforcement capabilities

Users being misinformed regarding our role

Weak digital skills of the population

Poor cyber security education of the common user

Internet Usage Statistics



11 million Internet Users in **Romania** (2017)

Share of Romania Population: **58** % (penetration)

Total Population : 19.71 million

Share of World Internet Users: 0.3 %

Internet Users in the World: ~ 3.8 billion

Sources:

http://www.internetlivestats.com/, Romanian National Statistics Institute

Country	Q1 2017 Avg. Mbps	YoY Change
Global Average	7.2	15%
South Korea	28.6	-1.7%
Norway	23.5	10%
Sweden	22.5	9.2%
Hong Kong	21.9	10%
Switzerland	21.7	16%
Finland	20.5	15%
Singapore	20.3	24%
Japan	20.2	11%
Denmark	20.1	17%
United States	18.7	22%

Source

Fastmetrics.com

Statistics from 2017

- 33,71% of the total number of unique IPs from RO were involved in at least one cyber security alert processed by CERT-RO in 2017
- 83,63% of the processed alerts account for vul nerable IT systems
- 10,32% of alerts are addressing compromised I
 T systems
- **5,88**% (8,17 mil.) of alerts regarding IT systems infected with Botnet
- 1709 .ro web domains were reported by CERT
 -RO as being compromised, 84% less than in 2016.





CERT-RO eCSI project



- "Enhanced National Cyber Security Services and Capabilities for Interoperability – eCSI"
- Financing source: CEF Telecom program

CEF-TC-2016-Call 3: Cyber Security

- Financing: INEA Innovation and Networks Executive Agency
- EU contribution: 869.000 EURO (75% of total eligible expenses)
- Implementation period: 24 months (01.09.2017- 30.08.2019)

SCOPE of eCSI project



- ➤ Create, maintain and expand the cybersecurity capabilities of CERT-R O.
- > Extending the cyber security services we provide at national level;
- Reach a state of preparedness that will allow us to participate on equal allowing at European level.

eCSI project – specific objectives



- > Expand the cybersecurity services provided by CERT-RO
- ➤ Interconnect CERT-RO and other national cybersecurity capabilities a nd services with MeliCERTes, facilitating an efficient information sharing and cyber incidents management
- Ensure the compliance with the requirements set out by the NIS Directive.
- Build awareness about technical and organizational requirements for achieving a good level of cybersecurity.

eCSI project – activities



- NCSP National Cybersecurity Services Platform
- National Cyber Call Centre (NC3)
- Digital Forensics and Malware Analysis Laboratory
- > Joint Cybersecurity Trainings
- > Dissemination, Cooperation and Sustainability

National Cybersecurity Services Platform



- > technical platform consisting of hardware and software which will increase CERT-RO's t echnical capabilities related to cybersecurity incident management and information shar ing;
- ➤ interoperable with the EU cooperation mechanisms and the Cybersecurity Core Service Platform (CSP)
- > collect, process, disseminate and share data related to cybersecurity incidents, vulnerab ilities, threats, events and artefacts, including incident notifications received by CERT-R O
- ➤ platform will provide services for different national organizations: digital service provide rs and operators of essential services (as defined by the NIS Directive), Internet Service Providers, law enforcement authorities, national cybersecurity authorities and other organizations within CERT-RO constituency.



National Cyber Call Centre (NC3)

- ➤ Enhancing the communication infrastructure by adding a Nationa I Cyber Call Centre.
- > Available 24/7 for all citizens, as well as public or private organiz ations.
- > With NC3, CERT-RO will meet the requirements imposed to national C SIRTs by the NIS Directive: set-up of several means for being contacte d and for contacting others at all times.

Digital Forensics & Malware Analysis Laboratory



Dedicated laboratory equipped with specialized toolkits and a sa ndbox platform for automation of malware analysis tasks will be set up;

CERT-RO personnel responsible for Digital Forensics and malwar e analysis activities will be trained to acquire more specific exper tise in these areas



Awareness campaigns for all types of users



Activities

Resources

Campaign Coordinators

About ECSM

Contact



312 DAYS **O** HOURS 12 MINUTES 16

SECONDS

October is CyberSecMonth

1st – 31st October 2018





THANK YOU!

MIHAI ROTARIU

P: +40740066866

E: mihai.rotariu@cert.ro