



**MKD-CIRT**

**AGENCY FOR  
ELECTRONIC COMMUNICATIONS**

**NATIONAL CENTRE FOR  
COMPUTER INCIDENT RESPONSE**

# **CYBER SECURITY AWARENESS AND BUILDING CAPACITIES**

Aleksandar Acev

MKD-CIRT

Agency for electronic communications  
[aleksandar.acev@mkd-cirt.mk](mailto:aleksandar.acev@mkd-cirt.mk)

# SERVICES of MKD-CIRT

**Services of MKD-CIRT aim to ensure efficient handling of computer incident by constituents and Internet users.**

- ❖ NOTIFICATIONS AND ALERTS
- ❖ REMOTE INCIDENT RESPONSE
- ❖ VULNERABILITY RESPONSE
- ❖ **AWARENESS , EDUCATION AND TRAINING**
- ❖ COORDINATION OF INCIDENT RESPONSE
- ❖ **ADVANCED AWARENESS, EDUCATION AND TRAINING**
- ❖ COORDINATE A VULNERABILITY RESPONSE
- ❖ ANALYSIS OF THREATS AND VULNERABILITIES

# Constituents

## Constituents of MKD-CIRT are:

- ❖ All ministries, public administration and services of the Government,
- ❖ Operators of critical infrastructure in the country, and
- ❖ Large companies in the financial, transportation, communications, healthcare, energy and other strategic sectors in the country

## Purpose:

- Establishing a network of trust with constituents,
- To cooperate and exchange information with state institutions responsible for law enforcement , especially those specializing in cyber crime

# Objectives

- O7. Continuously exchange information, know-how and experience with the constituents, establish security best practices/guidelines and publish them accordingly, as well as to continuously provide education and training for the constituents.
- O9. Continuously raise the awareness among the citizens on the negative effects of cyber threats and cybercrime.

# Objective for the constituents

O7. Continuously exchange information, know-how and experience with the constituents, establish best security practices/guidelines and publish them accordingly, as well as continuously provide education and training for the constituents and for the employees of the Centre.

- Exercises
- Workshops
- Trainings

# Exercises

08.05.2018 – First National table-top exercise for coordinating response to computer/ICT security incidents

- 35 participants from 25 organizations

**September 2019 – Second National coordination exercise**



# Trainings

## 2018

- **Certified ISO/IEC Risk Manager**
  - 30 participants from 25 organizations,
  - Opportunity to gain an Internationally recognized certificate of ISO 27005 Risk Manager
- **ICT systems and networks Vulnerabilities assessment**
  - 30 participants from 26 organizations from the government and public sectors

## 2019

- **Certified ISO/IEC 27001 Implementers (September – December), (30+ participants)**
- **Training and Workshop on Risk assessment based on OCTAVE Allegro methodology (40+ participants)**
- **Trainings on Vulnerability assessments, pen testing and digital forensics (40+ participants)**

# For citizens

Objective: To continuously raise the awareness among the citizens on the negative effects of cyber threats and cybercrime.

- Stop. Think. Connect.
- <https://mkd-cirt.mk>
- [twitter.com/mkdcirt](https://twitter.com/mkdcirt)

## Activities for 2019

- Cyber security guide for citizens
  - October 2019
- Cybersecurity guide for SME
  - July 2019
- 6 Short educational videos
  - October – December 2019



ЗАСТАНИ | РАЗМИСЛИ | ПОВРЗИ СЕ™



STOP | THINK | CONNECT™



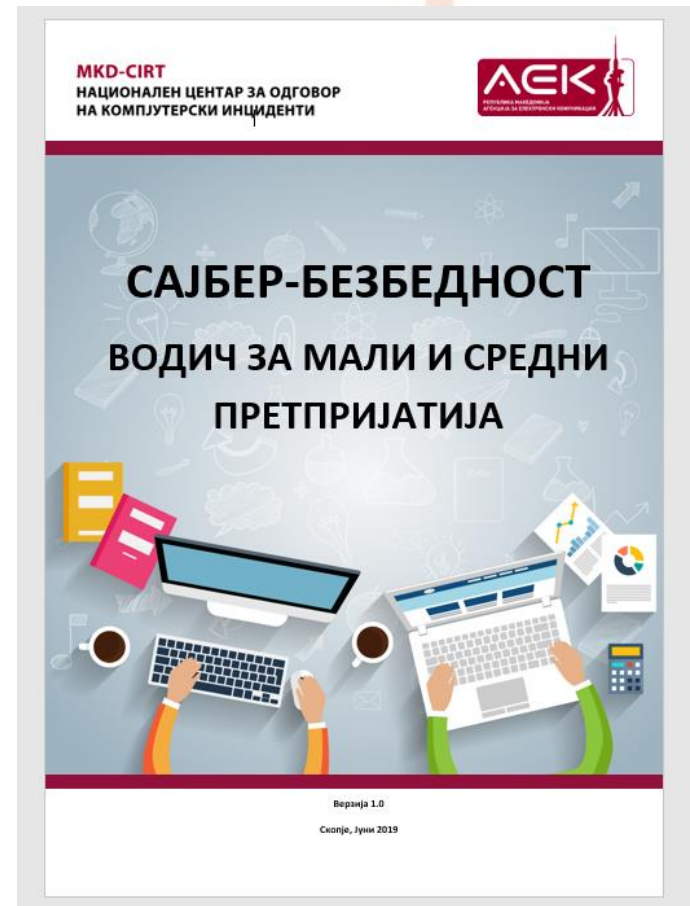
# Cyber security Guide for SMEs

Available July 2019

- PDF and hard-copy

Topics:

- Backup your data
- Protecting your company from malicious software
- Securing your mobile devices
- Strong passwords & 2FA
- Avoiding Phishing attacks



# Events

- National Cyber security competition
  - November 2019, online and onsite, Skopje
  - Open competition
  - 3 stages
- ITU Europe region Cyber Drill 2020
  - June 2020, Skopje

# MKD-CIRT: Public survey on Internet security

- **1<sup>st</sup> iteration in 2018, 2<sup>nd</sup> in 2019 - June**
  - Representative sample of 1400 people
  - Women 52%
  - Men 48%
  - Age 15+

# MKD-CIRT: Public survey on cyber security

## INTERNET DEVICES AND SERVICES



**90%**  
OF PEOPLE  
ARE  
INTERNET  
USERS



19%



84%



31%

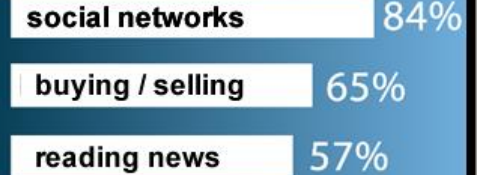


87%



**3 out of 4**  
CITIZENS  
USE  
SOCIAL  
NETWORKS

Most frequent activities on the Internet



## SECURITY MEASURES / PASSWORD USAGE

### PASSWORDS ON DEVICES



### USING TWO-FACTOR AUTHENTICATION



**48%**  
DO NOT USE  
BACKUP

### BACKUPS



# Thank you

**Full name:** NATIONAL CENTRE FOR COMPUTER INCIDENT RESPONSE  
**Short name:** MKD-CIRT  
**Web site:** <https://mkd-cirt.mk>  
**E-mail:** [info@mkd-cirt.mk](mailto:info@mkd-cirt.mk)  
**Telephone:** +389 2 3091 232

**MKD-CIRT's public GPG keys used for encrypting can be found on the big international public GPG key servers.**

**Key ID: 0x333C00DB**

**Key Type: RSA 4096**

**Key Fingerprint: 0FB9 3DA3 E008 FA8B FC6A 9C71 0741 17A1 333C 00DB**