



# **How can technology assist victims of digital stalking?**

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ICS-CERT , Kaspersky

Bullet2022

## ABOUT KASPERSKY



**>400,000,000**

users worldwide are protected by our technologies



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**Founded in 1997 and present on 6 continents in almost 200 countries and territories**

**Provides innovative IT security solutions and services for business and consumers**

**Works closely together with public and private stakeholders to ensure people's security and safety.**



1. Basics: what is stalkerware
2. Background: what Kaspersky is doing
3. Overview: tools & tactics to detect stalkerware
4. Deep dive: TinyCheck
5. Q&A



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## WHAT IS STALKERWARE?

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Stalkerware enables a perpetrator to secretly spy on another person's private life via a smart device.



The software is commercially available and has access to an array of personal data, such as:

- device location,
- browser history,
- text messages,
- social media chats,
- photos and more.

## THE CONTINUUM BETWEEN ONLINE & OFFLINE VIOLENCE

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In Europe, **70% of women** who have experienced cyber stalking, have also experienced at least one form of physical or/and sexual violence from an intimate partner.

Source: EIGE (2017). Cyber violence against women and girls

## THE SCALE OF THE ISSUE

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**32,694**

mobile users were by  
stalkerware globally in  
2021\*

**4,236**

in Europe

**30%**

People who see no issue  
with monitoring their  
partner under certain  
circumstances

The Coalition Against  
Stalkerware estimates  
that stalkerware usage  
likely exceeds **one million**  
instances per year.

Source: Kaspersky [report](#) "The State of Stalkerware in 2021", endorsed by the Coalition Against Stalkerware  
Source: Kaspersky report: "Digital Stalking in Relationships"

## HOW DIFFICULT IS IT TO FIND IT?

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M.SPY

# The Best Phone Tracker for Parental Control

#1 CHOICE IN ITALY\*

Know more. Worry less. That's the power of M.SPY, the phone tracker that lets you find out what they're up to online. And they won't even know you're spying.

TRY NOW

view details

hoverwatch

## CELL-PHONE TRACKER, THAT:

Records calls, SMS, audio, contacts  
Provides precise location  
Monitors Facebook, WhatsApp, Snapchat, Instagram  
Reveals all internet activity

1 month  
FULL pack

from  
€41,99  
per month

Track 1 Device

All monitoring functions are available

- ✓ Facebook Spy App
- ✓ WhatsApp Spy App
- ✓ Instagram Spy App
- ✓ Keylogger
- ✓ GPS Location Tracker

12 months  
FULL pack

from  
€9,91  
per month

Track 1 Device

All monitoring functions are available

- ✓ Facebook Spy App
- ✓ WhatsApp Spy App
- ✓ Instagram Spy App
- ✓ Keylogger
- ✓ GPS Location Tracker

3 months  
FULL pack

from  
€23,56  
per month

Track 1 Device

All monitoring functions are available

- ✓ Facebook Spy App
- ✓ WhatsApp Spy App
- ✓ Instagram Spy App
- ✓ Keylogger
- ✓ GPS Location Tracker



# WHAT CAN AN ABUSER MONITOR USING STALKERWARE?

## This varies between apps, but it may include:

- Real-time location (through GPS)
- Text messages (including WhatsApp, etc.)
- Social media conversations
- Phone call recordings and call logs
- Live video and voice recordings
- Browser history

Sometimes allows abuser to send messages from victim's device



### Call Data and Recording

Our android spy records all conversations on the device keeping a detailed log. You will be able to see both the contact's name and the duration of the conversation.



### Stay invisible

Probably, the spy app's biggest advantage is its ability to remain completely hidden. Unless the owner of the phone knows exactly what to look for he or she won't be able to see the secret app. This also applies to instances when the device is unrooted.



### Monitoring WhatsApp, Facebook, Viber, SMS and MMS

This spy mobile app stores all text messages, SMS and multimedia messages (MMS).



### Front Camera Photos

This app can spy camera. You can view unlocked snapshots in the Reports section of your back-office.



### Location

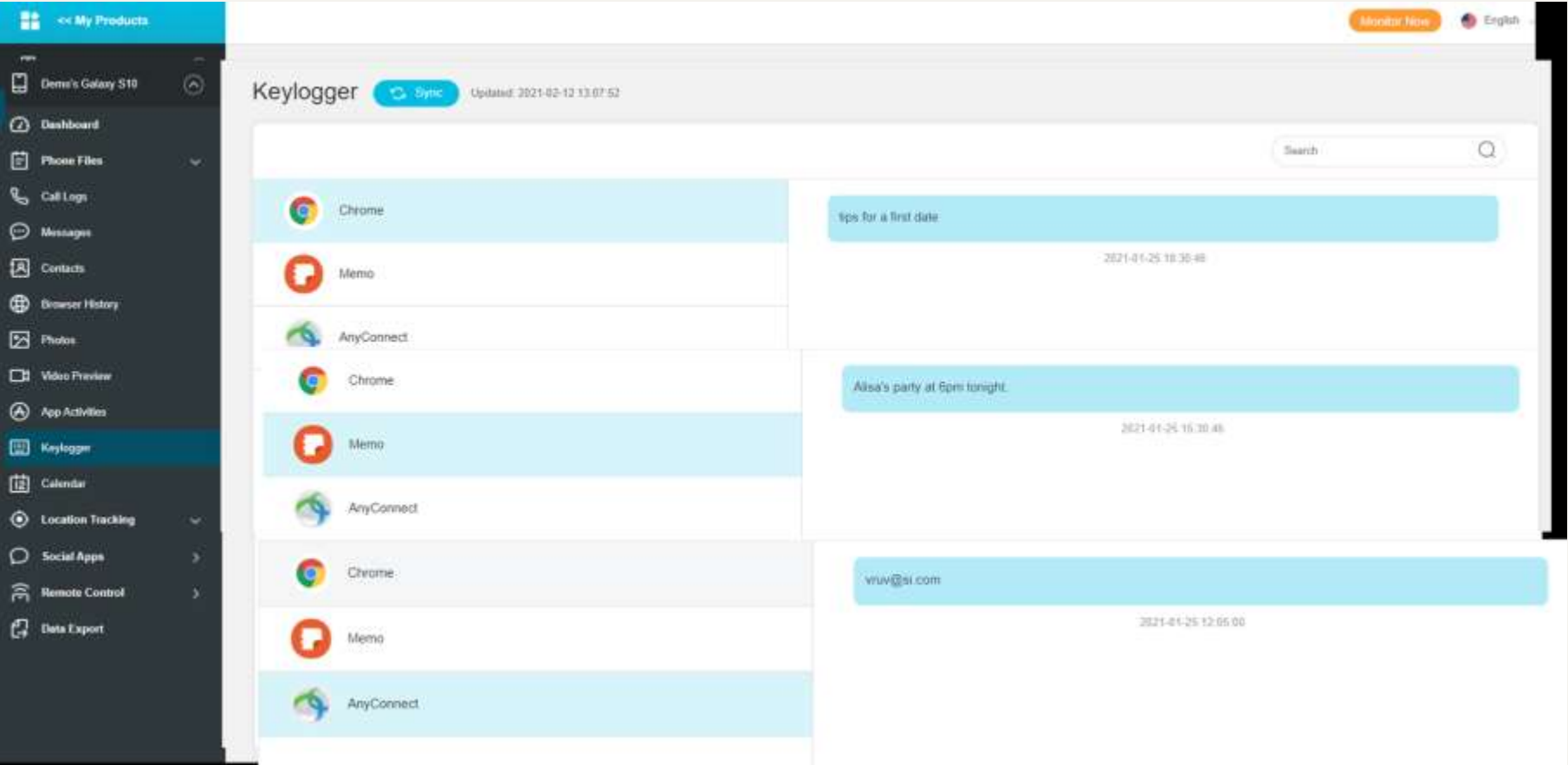
The application allows you to track the location of the mobile with the Cell Spy installed. You don't need to worry about the battery draining quickly as the app's energy efficient algorithms will prevent this from happening.



### Internet activity

The software saves all internet activity of the device it is installed on. This allows you to see the websites the owner of the mobile has visited.

# PERPETRATOR'S PERSPECTIVE – REMOTE CONTROL



# PERPETRATOR'S PERSPECTIVE – REMOTE CONTROL

Dashboard

Dashboard > Samsung SM-G930F (IT-SA\_Demo)

SMS History

Display last 10 messages

Type	Person	To/From	Content
1	-	TamamFin-AD	، ويسري هذا العرض حتى 30 نوفمبر 2022 <a href="https://app.tamam.life/jdF1">https://app.tamam.life/jdF1</a> انصل على ترقية الشفهي الآن بن تمام بوزارة فورية وبموت مستدام! حمل تطبيق الآن documents   Download the app now <a href="https://app.tamam.life/jdF1">https://app.tamam.life/jdF1</a> APR starts at 8.83%, and this offer is valid until November 30,
1	-	ZainKSA	Dear Customer, We wish you a pleasant stay in Germany Now, you can subscribe, re-subscribe, manage roaming services, read offer code to 959 from the following: 1 day 1GB for 59 SAR, send RD1 3 days 2GB for 99 SAR, send RD3 7 days 10GB for 199 SAR with 100 minutes for 179 SAR, send DV3 7 days 12GB with 150 minutes for 299 SAR, send DV7 15 days 18GB with 200 minutes 50 SAR send V50 7 days 120 minutes for 100 SAR send V120 30 days 200 minutes for 150 SAR send V200 have a Zain day!
1	-	Tawakkalna	Dear STEPHAN Please use the verification code 3091 to login to Tawakkalna

More Functions

Browser History

Browser Bookmarks

Key Logger

Clipboard logs

Facebook Messages

Messenger Lite

Documents

Wifi Networks

Sim Changes

Video Files

Installed Ap

Model: SM-G

OS: Android

Export

Table View

Google Maps

Browser History		\$1.99
Browser Bookmarks		\$0.99
Key Logger	new	\$3.99
Clipboard logs	new	\$1.99
Facebook Messages		\$3.99
Messenger Lite	new	\$3.99
Documents	new	\$1.99
Wifi Networks	new	\$0.99
Sim Changes	new	\$0.99
Events Calendar		\$0.99
Audio Files		\$0.99
WhatsApp		\$3.99
WhatsApp Calls	new	\$2.99
Viber Calls		\$1.99
Viber Messages		\$1.99
Skype Messages		\$2.99
Skype Calls		\$2.99

Search:

At

n with instant approval and no

51m ago

ain.li/app You can also send the

18h

for 349 SAR, send RD30 3 days 4GB

52m

send DV30 3 days 50 minutes for

ago

12 Dec 2021

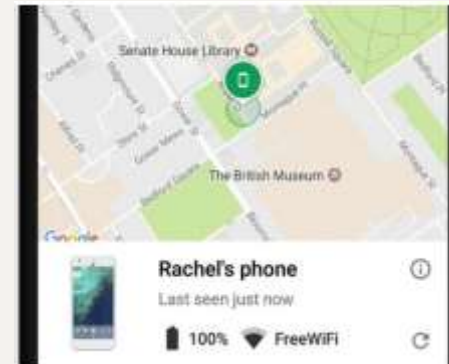
11:00

## REMEMBER! IT'S NOT JUST STALKERWARE!

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### Other ways of tech abuse (examples):

- Shared social media and/or email password
- Fitness trackers / sportwatches
- Find-my-device apps
- Regular access to a phone
- Tags (AirTag/Tile)



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Co-founder and driver of the Coalition Against Stalkerware



Project partner in the EU project „DeStalk“



Training by Kaspersky with INTERPOL



State of Stalkerware Report



## CO-FOUNDER OF AN INTERNATIONAL ALLIANCE

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Founded in 2019 – today 40+ members from all over the world

Member organizations come from various fields:

1. Domestic violence victim support and perpetrator organizations
2. Digital rights advocacy
3. IT security companies
4. Academia/Security Research
5. Law enforcement



## PARTNER IN AN EU PROJECT

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# DeStalk

detect and stop stalkerware and  
cyberviolence against women



Supported by the Rights, Equality  
and Citizenship Programme of the  
European Union (2014-2020)

## Project partners



kaspersky



UNA CASA  
PER L'UOMO  
società cooperativa sociale



REGIONE DEL VENETO



WMP | EUROPEAN NETWORK

Key output is an e-learning course on cyberviolence and stalkerware available in 5 languages. It is for professionals working in public authorities, victim support services and perpetrator programmes.

TinyCheck



# TRAINING FOR LAW ENFORCEMENT OFFICERS

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## Stalkerware

A basic technical training  
October 25, 2021

Coalition Against Stalkerware  
INTERPOL

WESNET  
kaspersky



## Welcoming words

**Pei Ling Lee**  
Acting Assistant Director,  
Cyber Strategy and Capabilities  
Development

INTERPOL



**INTERPOL\_Cyber** @INTERPOL\_Cyber · 28. Okt.

Recognizing the rising threat of [#stalkerware](#), INTERPOL provided an online training — developed by Coalition Against Stalkerware & [@Kaspersky](#) — to over 210 law enforcement officers worldwide to enhance their ability to investigate digital stalking

[kaspersky.com](#)  
Kaspersky teams up with INTERPOL and civil socie...  
In light of October being, in various countries across the globe, the month to raise awareness of ...

3 29 48



The State of  
Stalkerware  
in 2021

CAUTION AGAINST  
STALKERWARE



The State of  
Stalkerware  
in 2020

CAUTION AGAINST  
STALKERWARE



The State of  
Stalkerware  
in 2019

CAUTION AGAINST  
STALKERWARE

kaspersky

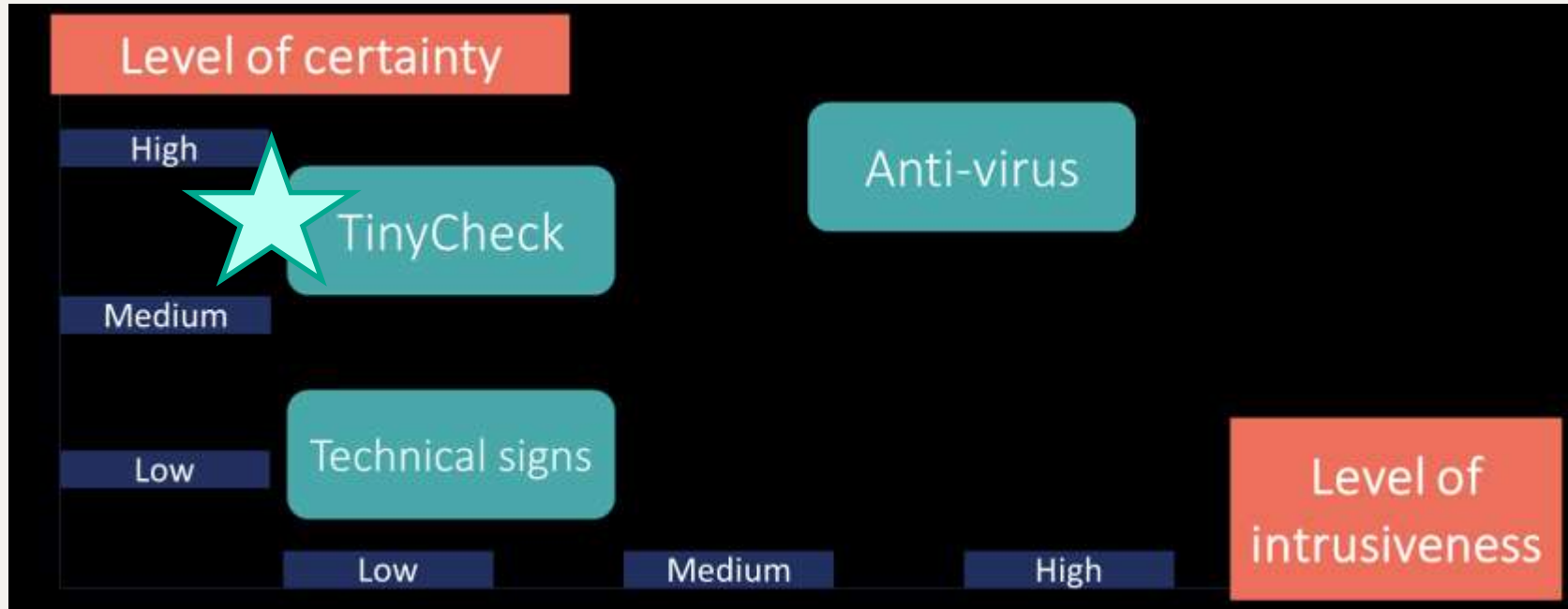
Every year Kaspersky analyzes the use of stalkerware around the world to better understand the threat it poses.

We partner with stakeholders across public and private sectors to raise awareness and find solutions to best tackle this important issue.

Find all State of the Stalkerware Reports & more here  
<https://kas.pr/antistalkerware>

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## INTRODUCING TINYCHECK

The goal of TinyCheck is to help **non-profit** organizations supporting victims of domestic violence and protect their privacy.



TinyCheck

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1

Perpetrator will not be informed

2

Check of all devices possible

3

Affordable, open-source tool

# How it works



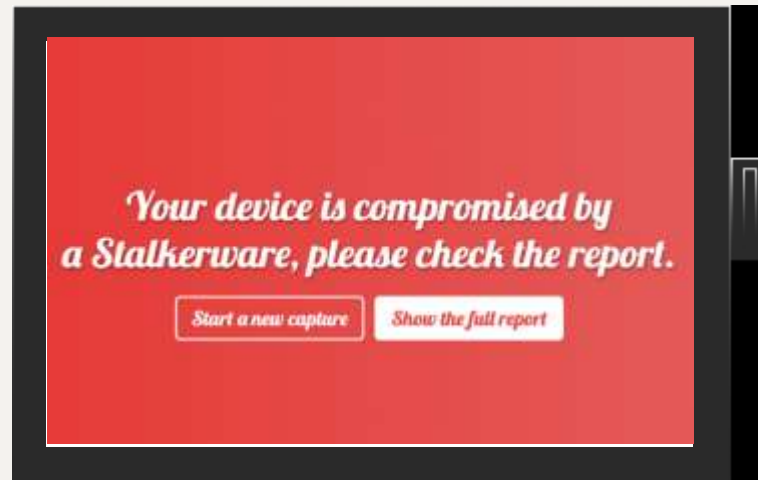
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Stalkerware detection tool

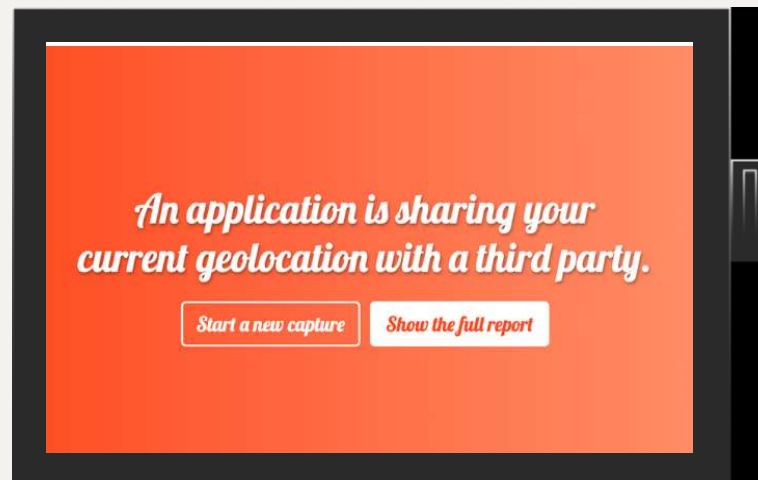
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## Quick verdict

TinyCheck

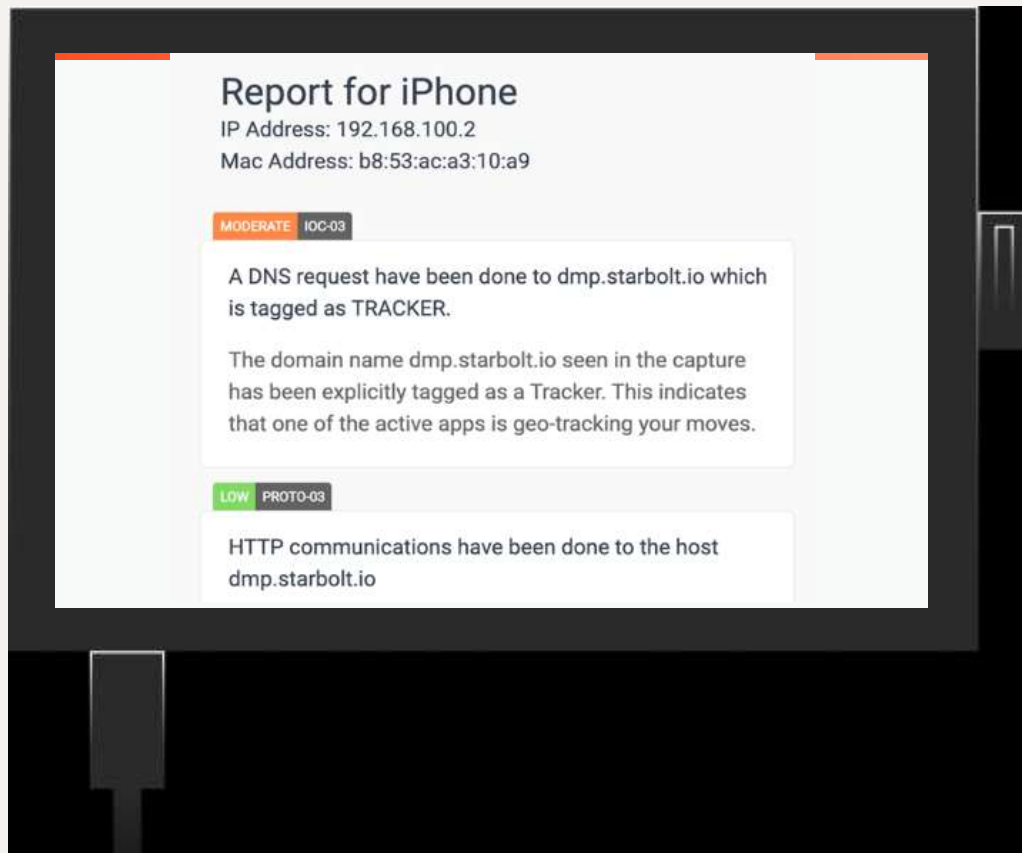


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# Detailed report



Do the interception in a public place (library, restaurant...) or common place (office, home...);

Intercept the network communications of the device for at least 10 minutes;

Interact with the analysed device during the interception (reboot it, take a photo, send a message...);

## WHAT DO YOU NEED TO BUILD TINYCHECK?

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TinyCheck

We are currently working with WESNET, the Australian peak body for Women's Domestic and Family Violence Services, to further test and develop TinyCheck to fit it better to the needs of workers in victim support services.



X

The Kaspersky logo, featuring the word "kaspersky" in a green, lowercase, sans-serif font.The TinyCheck logo, featuring the word "TinyCheck" in a white, sans-serif font on a dark background.

## CALL FOR ACTION

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1. Collaborate on TinyCheck source code on GitHub  
<https://github.com/KasperskyLab/TinyCheck>
2. Support the Coalition Against Stalkerware
3. Educate yourself and others on the issue of tech facilitated abuse and how you might help to combat digital violence.





Supported by the Rights, Equality  
and Citizenship Programme of the  
European Union (2014–2020)



# DeStalk European replication event

## "Tackling the digital dimension of violence against women"

Friday December 16

9:30 - 12:30 CET

Virtual event



Register at <https://tinyurl.com/destalkregistration>

Or scan the QR code

Registration link



**Let's talk!**

[info@tiny-check.com](mailto:info@tiny-check.com)

**Any  
questions?**

**Check out**  
[www.tiny-check.com](http://www.tiny-check.com)