SLOVENSKI STANDARD
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Zahteve in smernice za celotno verigo forenzičnih preiskav mobilnih naprav od začetka do konca

Requirements and Guidelines for a complete end-to-end mobile forensic investigation chain

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CEN WORKSHOP AGREEMENT

CWA 17865

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English version

Requirements and Guidelines for a complete end-to-end mobile forensic investigation chain

This CEN Workshop Agreement has been drafted and approved by a Workshop of representatives of interested parties, the constitution of which is indicated in the foreword of this Workshop Agreement.

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SIST CWA 17865:2022

Contents

Page

European foreword 5
Introduction 7
1 Scope 9
2 Normative references 9
3 Terms and definitions 10
4 Abbreviations 12
5 Personnel 13
5.1 Competence 13
5.2 Impartiality 14
5.3 Procedural 14
6 Tools 14
6.1 Background information 14
6.2 Overarching Principles related to the selection and use of Mobile Forensic Tools 15
6.3 Tool Fundamentals 15
6.4 Methodology 16
6.5 Tool Selection 17
6.6 Features 17
6.6.1 Accessing Data 17
6.6.2 Decoding Data 18
6.6.3 Data Integrity 19
6.6.4 User Knowledge 19
6.7 Tool Interoperability 19
6.8 Forensic Tool Log 20
6.9 Secure Evidential Storage 20
6.10 Validation and Verification of Tools 21
6.11 Tool Release Notes 21
6.12 Risk Register 22
6.13 Recommendation for an EU Forensic Testing Body 22
7 Processes 23
7.1 Background information 23
7.2 General requirements 23
7.2.1 Impartiality 23
7.2.2 Confidentiality 23
7.2.3 Auditability 24
7.2.4 Repeatability 24
7.2.5 Reproducibility 24
7.2.6 Justifiability 24
7.2.7 Chain of custody 25
7.3 Preliminaries 25
7.4 First response 26
7.5 Recording 26
7.6 Labelling 26
7.7 Packaging 26
7.8 Item transport and storage 27

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST CWA 17865:2022
https://standards.iteh.ai/catalog/standards/sist/80b4c51f-2834-4d3b-a406-04761f3bf208/sist-cwa-17865-2022

SIST CWA 17865:2022

7.9 Lab Work 27
7.9.1 Initial inspection phase / device identification 27
7.9.2 Instruction and authorisation 27
7.9.3 Tool Selection 27
7.9.4 Acquisition 27
7.9.5 Decoding / Decryption 28
7.10 Analysis 28
7.10.1 Analytical models 28
7.10.2 Live analysis 29
7.10.3 Selection of analysis methods 29
7.11 Verification and Validation 29
7.11.1 Verification of methods 29
7.11.2 Validation of methods 29
7.11.3 Peer Reviews 29
7.12 Reporting of results 30
7.12.1 Written reports 30
7.12.2 Oral reports at court 30
7.13 Exchange of data and archiving 31

8 Legal and Ethical Framework 31
8.1 General Overview 31
8.2 Governance of the evidentiary proceedings 36
8.3 Pre-Trial Criminal Proceedings Considerations 38
8.3.1 Appropriate logging and protocoling. 38
8.3.2 Criteria to be met when accessing messages, cloud and sensitive documents. 38
8.3.3 Importance of the different roles in the criminal procedure – suspect, witness, victim 38
8.3.4 Scrutinizing tools and review tools and documenting what tools were used 39
8.3.5 Clear audit trails 39
8.3.6 Using accessible language to all parties involved in the criminal procedure 40
8.3.7 Fair trial implications 40
8.3.8 Judicial overview of the process 40
8.4 Trial Phase Criminal Proceedings Considerations 40
8.5 Prevention of mobile forensics dual-use, misuse, and abuse 41

Annex A (informative) A Good Practice Guide for Mobile Forensic Tool Selection 44

A.1 Permissibility 44

A.2 Proportionality 44

A.3 Validity 44

A.4 Security 44

A.5 Processes 44

A.6 Ethics 45

Annex B (informative) Mobile Forensic Tool – Checklist for Selection 46

Annex C (informative) Mobile Forensic Tool – Risk Register 48

Annex D (informative) Six Steps to Successful to Mobile Validation 49

D.1 Step 1: Determine all possible extraction methods for the search authority 49

D.2 Step 2: Process the data in more than one tool 51

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(standards.iteh.ai)
Full standard:
https://standards.iteh.ai/catalog/standards/sist/80b4e51f-2f6f-4fb8-a761-f3bf208/sist-cwa-17865-2022

SIST CWA 17865:2022

D.3 Step 3: Deep dive forensics: Where the push button stops and forensic examinations begin 52
D.4 Step 4: Validation (Types: Visual, cross-tool, call detail records, CCTV, carving, replication) 52
D.5 Step 5: Reporting/Sharing your findings 53
D.6 Step 6: Education 54
Annex E (informative) Forensic Information Report Template 55
E.1 General 55
E.2 Forensic Information Report 55
7.3 Analysis Interpretation 62
7.4 Review and Validation 62
Annex F (informative) Governance implications of the use of Artificial Intelligence in mobile forensics 64
Bibliography 65

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PREVIEW
(standards.iteh.ai)
SIST CWA 17865:2022
https://standards.iteh.ai/catalog/standards/sist/80b4c51f-2834-4d3b-a406-04761f3bf208/sist-cwa-17865-2022

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European foreword

This CEN Workshop Agreement (CWA 17865:2022) has been developed in accordance with the CEN-CENELEC Guide 29 “CEN/CENELEC Workshop Agreements – A rapid way to standardization” and with the relevant provisions of CEN/CENELEC Internal Regulations - Part 2. It was approved by a Workshop of representatives of interested parties on 2022-02-22, the constitution of which was supported by CEN following the public call for participation made on 2021-01-28. However, this CEN Workshop Agreement does not necessarily include all relevant stakeholders.

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SIST CWA 17865:2022

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SIST CWA 17865:2022

Introduction

Mobile devices, especially smartphones represent a unique challenge for law enforcement. Due to their wide use, they underpin many criminal investigations. For instance, one may find critical evidence in a smartphone of a victim who is in no position to unlock the device. Moreover, criminal offenders, organised crime and terrorist organisations use mobile devices for various purposes, which introduces many challenges for criminal prosecution. Determining how the data got onto the mobile device is not always simple as these devices often sync and share data with other digital media and cloud services. Law enforcement need not only to access the data stored on mobile devices, but also provide it as court evidence in a trustworthy and reliable manner.

The overarching objective of Horizon 2020 project FORMOBILE is to establish a complete end-to-end forensic investigation chain that targets mobile devices and includes an appropriate standard. Adherence to the standards during all steps of investigation in this field is of critical importance for the evidence being regarded as reliable and acceptable to the court. Development of such a standard is of the utmost importance to secure the successful outcome of an investigation. Despite the relatively large number of standards and non-formal standardisation documents, relevant for IT security and digital investigation, there is a lack of specific standards for mobile forensics in general and especially in the areas, relevant for the FORMOBILE project.

Several European and international standardisation bodies work on the standardisation in the area of digital forensics, including ISO and IEC[1)], NIST, ETSI and ASTM. The standards, developed by these organisations do not explicitly address the topic of mobile forensics in digital investigations. This standard is aimed to complement existing standards from these organisations. Currently, they are only partly relevant for the FORMOBILE Project and do not provide a holistic approach to the processes of mobile forensics. A significant amount of the reference documents, used as standards in mobile forensics, are best practices and guidelines.

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There are current policies and initiatives at national, European as well as international level to introduce consistent and generally accepted standards for mobile forensics within the forensic community. This may benefit all users of the criminal justice system including members of the public as well as legal and forensic practitioners. This CWA can be immediately applied by Law Enforcement Agencies (LEAs) and serve as a forerunner for a new European Standard in mobile forensics.

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Several European initiatives and regulations, relevant for the area of digital investigations, includes the Council of Europe's Convention on Cybercrime (The Council of Europe, 2001), Directive of the European Parliament and of the Council regarding the European Investigation Order (Council, 2014), INTERPOL Global guidelines for digital forensics laboratories (INTERPOL, 2019).

In Europe, there is no unified legal framework for the processes of acquisition, collection, processing, storage or exchange of digital data, which may result in evidence acceptable to the courts of law in different countries. Within these countries, the processes usually conform to national law and regulations, but those regulations and laws may not be consistent or enable transfer for evidential purposes between countries. Despite mutual recognition, implemented across various countries, a lot of issues remain open that allow judges to determine the admissibility of electronic data as evidence.

There is a growing need for LEAs and other organisations dealing with mobile forensics to have a consistent European standard which ensures that evidence presented for the court are regarded as reliable. This is extremely important for unification of the investigative process across law enforcement

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1) This includes ISO/IEC JTC 1/SC 27 Information security, cybersecurity and privacy protection, incl. ISO/IEC 27037:2012 Information technology — Security techniques — Guidelines for identification, collection, acquisition and preservation of digital evidence; ISO/IEC JTC 1/SC 37 Biometrics; ISO/IEC JTC 1/SC 40 IT Service Management and IT Governance.

SIST CWA 17865:2022

in different countries and for a successful outcome of the investigation. LEAs, national and international forensic laboratories of different levels, organisations working in the area of mobile forensics as well as independent experts are among the beneficiaries of this CEN Workshop.

As such, the primary purpose of this document is to provide recommendations for a complete forensic investigation chain targeting mobile devices that covers good practices for the mobile phone forensic chain, tools for the acquisition, recovery, analysis and visualisation of data, as well as the necessary training required to effectively use the new tools and successfully follow the good practices. These broad topics are covered in the following clauses addressing the three areas of critical importance: Personnel (Clause 5), Tools (Clause 6) and Processes (Clause 7).

This CWA seeks to document good practice guidance for the correct and necessary processes, competencies and methods required to ensure the admissibility of the evidence. It provides a set of guidelines that fit within the wider context of digital forensic investigations for law enforcement in general at the level of specificity, necessary to keep these guidelines meaningful, whilst simultaneously avoiding such detail that make them quickly obsolete.

The guidance in this document is designed to specifically address the specialism of mobile forensics. It is intended to be complementary to existing related standards within the digital forensics sphere. It is not intended to replace or override existing guidance or good practice specific to other digital forensics areas.

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1 Scope

This CEN Workshop Agreement (CWA) focuses on the Personnel, Tools, Processes and Legal and Ethical framework specific for mobile forensics and including the following topics:

a) Competencies;

b) device seizure;

c) data preservation;

d) data acquisition;

e) data examination and analysis;

f) documentation of all investigation steps;

g) reporting;

h) evaluation and sharing of information with other LEAs; and

i) legal and ethical considerations.

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In addition to the process-related issues, the document covers requirements for new curriculum for training of LEA officers, security practitioners and criminal prosecution experts to ensure that the evidence from mobile devices is court-approved across national borders.

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It is recognised that national laws and good practices applied at LEAs vary not only between different European countries but also within these countries. This CWA offers a collection of building blocks covering different aspects of mobile forensics allowing for adjustments based on national laws and regulations as well as internal rules and codes of conduct. It allows LEAs from different countries to accommodate their available technical solutions, at the same time offering a standardised collection of procedures and requirements.

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It should be explicitly stated that it is not possible to cover all the possible related topics for mobile forensics. Detailed subject matters and specialisms such as Cloud Forensics, Cell Site Analysis, Interception of Communications are excluded. Similarly, the rules and regulations about chain of custody in general, plus guidance for transmission of evidence across national boundaries are excluded from this standards document.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 21043-2:2018, *Forensic sciences — Part 2: Recognition, recording, collecting, transport and storage of items*

ISO/IEC 17025:2017, *General requirements for the competence of testing and calibration laboratories*

ISO/IEC 27037:2012, *Information technology — Security techniques — Guidelines for identification, collection, acquisition and preservation of digital evidence*

ISO/IEC 27041:2015, *Information technology — Security techniques — Guidance on assuring suitability and adequacy of incident investigative method*

SIST CWA 17865:2022

ISO/IEC 27042:2015, *Information technology — Security techniques — Guidelines for the analysis and interpretation of digital evidence*

ISO/IEC 27043:2015, *I*nformation technology — Security techniques — Incident investigation principles and processes

ISO/IEC 27050 (all parts), *Information technology — Security techniques — Electronic discovery*

ASTM E2916-19 — *Standard Terminology for Digital and Multimedia Evidence Examination*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
chain of custody
responsibility for or control of materials and associated data as they move through each step of a process

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Note 1 to entry: In NIST SP 800-72 chain of custody is defined as process that tracks the movement of evidence through its collection, safeguarding, and analysis lifecycle by documenting each person who handled the evidence, the date/time it was collected or transferred, and the purpose for the transfer.

[SOURCE: ISO 20387:2018, 3.12, modified with Note to entry added]

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3.2
chain of evidence
process and record that shows who obtained the evidence, where and when the evidence was obtained; who secured the evidence; and who had control or possession of the evidence

Note 1 to entry: The “sequencing” of the chain of evidence follows this order: collection and identification; analysis; storage; preservation; presentation in court; return to owner. Rationale: Sufficiently covered under chain of custody.

Note 2 to entry: This definition is derived from CNSSI 4009 Committee on National Security Systems (CNSS) Glossary.

Note 3 to entry: This definition also relates to potential evidence, not yet accepted as evidence by court.

3.3
conflict of interests
conflict of interest arises when a person involved in the investigation has a private interest that may affect the impartial and objective performance of his or her powers or duties

3.4
digital forensics
use of scientifically derived and proven methods toward the preservation, collection, validation, identification, analysis, interpretation, documentation, and presentation of digital evidence derived from digital sources for the purpose of facilitation or furthering the reconstruction of events found to be criminal

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Note 1 to entry: In ISO/IEC 30121:2015, 3.3 digital forensics is defined as scientific tasks, techniques, and practices used in the investigation of stored or transmitted binary information or data for legal purposes.

3.5
strategy
<digital forensics> documented objectives defined for the process of proportional examination of digital evidence, in order to support investigations and prosecutions

Note 1 to entry: The strategy helps guide investigators as to the best approach in accordance with current digital forensic science, to support evidential integrity across the criminal justice system, from crime scene to courtroom.

3.6
competence
<mobile forensics> ability, knowledge or skills of people to perform successful, accurate and reliable mobile forensics, as defined by either the organization, policy, standard or accreditation scheme

Note 1 to entry: These requirements should be documented.

3.7
process
set of interrelated or interacting activities that use inputs to deliver an intended result

[SOURCE: ISO 9000:2015, 3.4.1]

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3.8
procedure
specified way to carry out an activity or a process

[SOURCE: ISO 9000:2015, 3.4.5]

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3.9
file system
<computer forensics> specified method for naming, storing, organizing and accessing files on logical volumes

[SOURCE: ASTM E2916-19e1]

3.10
hash sum
string of alphanumerical values used to substantiate the integrity of digital evidence or for inclusion/exclusion comparisons against known value sets or both

[SOURCE: ASTM E2916-19e1]

3.11
jailbreaking (iOS)/rooting (Android)
activity, which describes modification of an electronic device to remove restrictions imposed by the manufacturer or operator, that can provide access to more data during forensic examinations

3.12
mobile device
any handheld computer device that will have a display screen, providing a touchscreen interface with digital buttons and keyboard or physical buttons along with a physical keyboard

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Note 1 to entry: Many such devices can connect to the Internet and interconnect with other devices via Wi-Fi, Bluetooth, cellular networks or near field communication (NFC). Typical devices could be a smartphone, a tablet or wearables.

3.13
mobile device forensics
mobile device forensics is a branch of digital forensics relating to recovery of digital evidence or data from a mobile device under forensically sound conditions

[SOURCE: ASTM E2916-19e1]

3.14
forensic acquisition
forensic image is a copy of the electronic data on a device created to generate a trusted copy of the original device data, for examination by a court of law

Note 1 to entry: There are different methods to create forensic images depending on the technology involved.

3.15
physical acquisition
data extracted directly from the device storage area

3.16
logical acquisition
accurate reproduction of information contained within a logical volume (for example, mounted volume, logical drive assignment etc.)

[SOURCE: ASTM E2916-19e1]

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3.17
File System acquisition
targeted active files and folders from the file system which may contain remnants of deleted data and non-user data

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[SOURCE: CFRS762-Mobile Device Forensics, George Mason University]

3.18
carve
<computer forensics> to extract a portion of data for the purpose of analysis

[SOURCE: ASTM E2916-19e1]

3.19
parsing
process of converting raw data into formatted data structure

Note 1 to entry: A data structure type can be any suitable representation of the information contained in the raw data.

4 Abbreviations

AFU - After First Unlock – term used to describe the state of a modern smartphone wherein the mobile device has been powered on and unlocked at least once but is locked at time of examination.

ASTM - American Society for Testing and Materials.

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BFU - Before First Unlock – term used to describe the state of a modern smartphone wherein the mobile device has been powered on, but not yet unlocked at time of examination.

CASE - Cyber-investigation Analysis Standard Expression; a community-developed evolving standard that provides a structured (ontology-based) specification for representing information commonly analysed and exchanged by people and systems during investigations involving digital evidence.

ETSI - European Telecommunications Standards Institute.

EU – European Union

FFS - Full File System

IEC - The International Electrotechnical Commission.

INTERPOL - "The International Criminal Police Organisation – INTERPOL", which is abbreviated to "ICPO–INTERPOL".

ISO - The International Organisation for Standardisation.

JTC - Joint Technical Committee.

LED – Law Enforcement Directive

NIST - National Institute of Standards and Technology. A US government department within the US Department of Commerce who specialises in digital forensic testing of tools.

SC - subcommittee

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5 Personnel

5.1 Competence

5.1.1 Personnel shall be competent and duly certified to use the tools and techniques used in their investigations[2]. See 5.3.2.

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5.1.2 Requirements for competence should be documented[3]. Reference to already established lists of competences. Requirements for competence should reflect the role of the practitioner.

5.1.3 Training activity should be documented. Records (certificates of attendance, accreditations, etc.) of personnel should be retained.

5.1.4 On the job training[4] should be documented, including what is trained on, when and trained by and authorisation after training is passed, also document the expiry (date) of training. The relevance of the training should be periodically reviewed to determine its validity and suitability.

5.1.5 Personnel should have generic Mobile Device Digital Forensic (tool agnostic) training (basic training should deal with crime-scene[5], chain of custody/evidence topics, basics about types of acquisition, analysis, reporting and court appearance). Technique and tool-oriented training should extend the basic trainings (see also Clause 6.6.4).

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2) ISO/IEC 17025:2017, Clause 6.2.1

3) ISO/IEC 17025:2017, Clause 6.2.2

4) Like on the execution of internal procedures.

5) Like order of examination (DNA, Fingerprints, digital), bio/chemical hazards