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Cell Phone Forensic Tools:

An Overview and Analysis Update

Rick Ayers

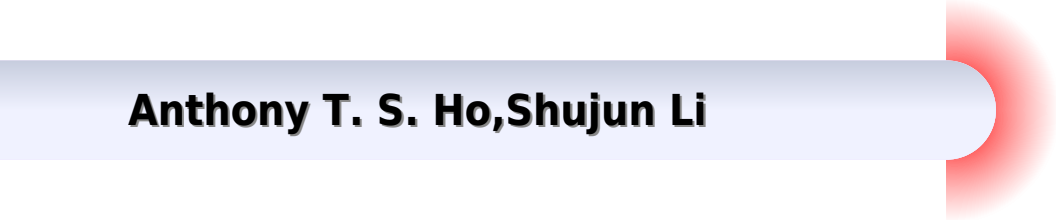
Wayne Jansen

Ludovic Moenner

Aurelien Delaitre

Cell Phone Forensic Tools An Overview And Analysis Update

Anthony T. S. Ho, Shujun Li



Cell Phone Forensic Tools An Overview And Analysis Update:

Cell Phone Forensic Tools nist,2013-11-13 Cell phones and other handheld devices incorporating cell phone capabilities e g Personal Digital Assistant PDA phones are ubiquitous Rather than just placing calls certain phones allow users to perform additional tasks such as SMS Short Message Service messaging Multi Media Messaging Service MMS messaging IM Instant Messaging electronic mail Web browsing and basic PIM Personal Information Management applications e g phone and date book PDA phones often referred to as smart phones provide users with the combined capabilities of both a cell phone and a PDA In addition to network services and basic PIM applications one can manage more extensive appointment and contact information review electronic documents give a presentation and perform other tasks All but the most basic phones provide individuals with some ability to load additional applications store and process personal and sensitive information independently of a desktop or notebook computer and optionally synchronize the results at some later time As digital technology evolves the capabilities of these devices continue to improve rapidly When cell phones or other cellular devices are involved in a crime or other incident forensic examiners require tools that allow the proper retrieval and speedy examination of information present on the device This report provides an overview on current tools that have undergone significant updates or were not examined in NISTIR 7250 **Cell Phone Forensic Tools An Overview and Analysis** designed for acquisition examination and reporting of data discovered on cellular handheld devices and an understanding of their capabilities and limitations **Cell Phone Forensic Tools** Rick Ayers,National Institute of Standards and Technology (U.S.),2007-08 When cell phones or other cellular devices are involved in a crime or other incident forensic examiners require tools that allow the proper retrieval and speedy examination of information present on the device This report provides an overview on current tools designed for acquisition examination and reporting of data discovered on cellular handheld devices and an understanding of their capabilities and limitations Cell Phone Forensics Tools Nist,2013-11-13 Cell phones and other handheld devices incorporating cell phone capabilities e g Personal Digital Assistants PDAs phones are ubiquitous Rather than just placing calls certain phones allow users to perform additional tasks such as SMS Short Message Service messaging Multi Media Messaging Service MMS messaging IM Instant Messaging electronic mail Web browsing and basic PIM Personal Information Management applications e g phone and date book PDA phones often referred to as smart phones provide users with the combined capabilities of both a cell phone and a PDA In addition to network services and basic PIM applications one can manage more extensive appointment and contact information review electronic documents give a presentation and perform other tasks All but the most basic phones provide individuals with some ability to load additional applications store and process personal and sensitive information independently of a desktop or notebook computer and optionally synchronize the results at some later time As digital technology evolves the capabilities of these devices continue to improve rapidly When cell phones or other cellular devices are involved in a crime or other incident forensic examiners

require tools that allow the proper retrieval and speedy examination of information present on the device This report gives an overview of current forensic software designed for acquisition examination and reporting of data discovered on cellular handheld devices and an understanding of their capabilities and limitations Cell Phone Forensic Tools ,2007 When cell phones or other cellular devices are involved in a crime or other incident forensic examiners require tools that allow the proper retrieval and speedy examination of information present on the device This report provides an overview on current tools designed for acquisition examination and reporting of data discovered on cellular handheld devices and an understanding of their capabilities and limitations Mobile Phone Security and Forensics Iosif I. Androulidakis,2012-03-29 Mobile Phone Security and Forensics provides both theoretical and practical background of security and forensics for mobile phones Security and secrets of mobile phones will be discussed such as software and hardware interception fraud and other malicious techniques used against users will be analyzed Readers will also learn where forensics data reside in the mobile phone and the network and how to conduct a relevant analysis Handbook of Digital Forensics of Multimedia Data and Devices, Enhanced E-Book Anthony T. S. Ho, Shujun Li,2016-05-20 Digital forensics and multimedia forensics are rapidly growing disciplines whereby electronic information is extracted and interpreted for use in a court of law These two fields are finding increasing importance in law enforcement and the investigation of cybercrime as the ubiquity of personal computing and the internet becomes ever more apparent Digital forensics involves investigating computer systems and digital artefacts in general while multimedia forensics is a sub topic of digital forensics focusing on evidence extracted from both normal computer systems and special multimedia devices such as digital cameras This book focuses on the interface between digital forensics and multimedia forensics bringing two closely related fields of forensic expertise together to identify and understand the current state of the art in digital forensic investigation Both fields are expertly attended to by contributions from researchers and forensic practitioners specializing in diverse topics such as forensic authentication forensic triage forensic photogrammetry biometric forensics multimedia device identification and image forgery detection among many others Key features Brings digital and multimedia forensics together with contributions from academia law enforcement and the digital forensics industry for extensive coverage of all the major aspects of digital forensics of multimedia data and devices Provides comprehensive and authoritative coverage of digital forensics of multimedia data and devices Offers not only explanations of techniques but also real world and simulated case studies to illustrate how digital and multimedia forensics techniques work Includes a companion website hosting continually updated supplementary materials ranging from extended and updated coverage of standards to best practice guides test datasets and more case studies Information and Communications Security Tat Wing Chim, Tsz Hon Yuen,2012-10-15 This book constitutes the refereed proceedings of the 14th International Conference on Information and Communications Security ICICS 2012 held in Hong Kong China in October 2012 The 23 regular papers and 26 short papers were carefully reviewed and selected from 101 submissions The papers

cover many important areas in information security such as privacy security in mobile systems software and network security cryptanalysis applied cryptography as well as GPU enabled computation

Introductory Computer Forensics Xiaodong Lin, 2018-11-10 This textbook provides an introduction to digital forensics a rapidly evolving field for solving crimes Beginning with the basic concepts of computer forensics each of the book's 21 chapters focuses on a particular forensic topic composed of two parts background knowledge and hands on experience through practice exercises Each theoretical or background section concludes with a series of review questions which are prepared to test students understanding of the materials while the practice exercises are intended to afford students the opportunity to apply the concepts introduced in the section on background knowledge This experience oriented textbook is meant to assist students in gaining a better understanding of digital forensics through hands on practice in collecting and preserving digital evidence by completing various exercises With 20 student directed inquiry based practice exercises students will better understand digital forensic concepts and learn digital forensic investigation techniques This textbook is intended for upper undergraduate and graduate level students who are taking digital forensic related courses or working in digital forensics research It can also be used by digital forensics practitioners IT security analysts and security engineers working in the IT security industry particular IT professionals responsible for digital investigation and incident handling or researchers working in these related fields as a reference book

Guidelines on Cell Phone and PDA Security Wayne Jansen, 2009-08 Cell phones and Personal Digital Assistants PDAs have become indispensable tools for today's highly mobile workforce Small and relatively inexpensive these devices can be used not only for voice calls simple text messages and Personal Information Management PIM but also for many functions done at a desktop computer While these devices provide productivity benefits they also pose new risks This document is intended to assist organizations in securing cell phones and PDAs More specifically this document describes in detail the threats faced by organizations that employ handheld devices and the measures that can be taken to counter those threats

Handbook of Digital Forensics and Investigation Eoghan Casey, 2009-10-07 Handbook of Digital Forensics and Investigation builds on the success of the Handbook of Computer Crime Investigation bringing together renowned experts in all areas of digital forensics and investigation to provide the consummate resource for practitioners in the field It is also designed as an accompanying text to Digital Evidence and Computer Crime This unique collection details how to conduct digital investigations in both criminal and civil contexts and how to locate and utilize digital evidence on computers networks and embedded systems Specifically the Investigative Methodology section of the Handbook provides expert guidance in the three main areas of practice Forensic Analysis Electronic Discovery and Intrusion Investigation The Technology section is extended and updated to reflect the state of the art in each area of specialization The main areas of focus in the Technology section are forensic analysis of Windows Unix Macintosh and embedded systems including cellular telephones and other mobile devices and investigations involving networks including enterprise environments and mobile telecommunications

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