Cell Phone Forensics Tools: An Overview and Analysis

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Author(s)
Richard P. Ayers, Wayne Jansen, Nicolas Cilleros, Ronan Daniellou

Abstract
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.

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Posts about Cell Phone Analysis written by, Amanda Pearson, and Lance Lonsdale. Susteen offers an intelligence gathering and triage tool called svSmart (add-on module) The First Cell Phone Forensics Intelligence Gathering Tool in the Marketplace! We have taken our embedded analytical tool (svProbe), given our customers the ability to preset conditions and use the preset conditions to attain evidence in the field and in the lab. Add to cart. Quick View. Gillware Digital Forensics investigators have experience with cell phone forensics from water damaged, fire damaged, smashed, cracked, or shattered phones. Among our mobile device forensics cases, cell phones are the most common type of device submitted for analysis. Cell phone forensics can be a complicated field, but Gillware’s forensic experts have years of experience and advanced training to ensure the best possible results of each forensic case. History of Cell Phones. When most people think of cell phone forensics, the data stored on smartphones comes to mind. However, cell phone forensics was already being used by investigators long before the proliferation of smartphones. Mobile Forensics Central provides essential information for Mobile Device Analysis. Digital Investigators can generate custom Phone Reports detailing what software, cables and tools are compatible with the device they are trying to analyze. Software updates, Training Information and News. XRY Physical XRY Physical provides mobile phone forensics specialists with the tools they need to perform highly sophisticated "physical" data acquisitions from confiscated phones or memory cards and allows for the recovery of deleted information. The new XRY Physical lets forensics specialists push investigations even further by performing physical data acquisitions— a process generating hex dumps from phone memory and allowing the recovery of deleted information.