



Handbook of Digital Forensics and Investigation

By Eoghan Casey

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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 technology).

This handbook is an essential technical reference and on-the-job guide that IT professionals, forensic practitioners, law enforcement, and attorneys will rely on when confronted with computer related crime and digital evidence of any kind.

- *Provides methodologies proven in practice for conducting digital investigations of all kinds

- *Demonstrates how to locate and interpret a wide variety of digital evidence, and how it can be useful in investigations

- *Presents tools in the context of the investigative process, including EnCase, FTK, ProDiscover, foremost, XACT, Network Miner, Splunk, flow-tools, and many other specialized utilities and analysis platforms

- *Case examples in every chapter give readers a practical understanding of the technical, logistical, and legal challenges that arise in real investigations

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Editorial Review

Review

"... any library serving them would find this an excellent introduction." -E-Streams

"Any law firm looking to get into the field would do well to start here." -E-Streams

"... a useful introduction to an increasingly important field." -E-Streams

From the Back Cover

Handbook of DIGITAL FORENSICS AND INVESTIGATION Edited by **EOGHAN CASEY**,
cmdLabs.com Author of *Digital Evidence and Computer Crime*

Contributors: Cory Altheide (Mandiant) - Christopher Daywalt (cmdLabs) - Andrea de Donno (Lepta) - Dario Forte (DFLabs) - James Holley (Ernst & Young) - Andy Johnson (University of Maryland, Baltimore County) - Ronald van der Knijff (Netherlands Forensic Institute) - Anthony Kokocinski (CSC) - Paul Luehr (Stroz Friedberg) - Terrance Maguire (cmdLabs) - Ryan Pittman (US Army) - Curtis Rose (Curtis W. Rose & Associates) - Joseph Schwerha (TraceEvidence) - Dave Shaver (US Army) - Jessica Reust Smith (Stroz Friedberg) The *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. 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 technology). **KEY FEATURES**

- Provides methodologies proven in practice for conducting digital investigations of all kinds
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- Presents tools in the context of the investigative process, including EnCase, FTK, ProDiscover, foremost, XACT, Network Miner, Splunk, flow-tools, and many other specialized utilities and analysis platforms
- Case examples in every chapter give readers a practical understanding of the technical, logistical, and legal challenges that arise in real investigations

The *Handbook of Digital Forensics and Investigation* is an essential technical reference and on-the-job guide that IT professionals, forensic practitioners, law enforcement, and attorneys will rely on when confronted with computer related crime and digital evidence of any kind. Shelving classification: Digital Forensics / Criminal Investigation

About the Author

Eoghan Casey is an internationally recognized expert in data breach investigations and information security forensics. He is founding partner of CASEITE.com, and co-manages the Risk Prevention and Response business unit at DFLabs. Over the past decade, he has consulted with many attorneys, agencies, and police departments in the United States, South America, and Europe on a wide range of digital investigations, including fraud, violent crimes, identity theft, and on-line criminal activity. Eoghan has helped organizations investigate and manage security breaches, including network intrusions with international scope. He has delivered expert testimony in civil and criminal cases, and has submitted expert reports and prepared trial exhibits for computer forensic and cyber-crime cases.

In addition to his casework and writing the foundational book *Digital Evidence and Computer Crime*, Eoghan has worked as R&D Team Lead in the Defense Cyber Crime Institute (DCCI) at the Department of Defense Cyber Crime Center (DC3) helping enhance their operational capabilities and develop new techniques and tools. He also teaches graduate students at Johns Hopkins University Information Security Institute and created the Mobile Device Forensics course taught worldwide through the SANS Institute. He has delivered keynotes and taught workshops around the globe on various topics related to data breach investigation, digital forensics and cyber security.

Eoghan has performed thousands of forensic acquisitions and examinations, including Windows and UNIX systems, Enterprise servers, smart phones, cell phones, network logs, backup tapes, and database systems. He also has information security experience, as an Information Security Officer at Yale University and in subsequent consulting work. He has performed vulnerability assessments, deployed and maintained intrusion detection systems, firewalls and public key infrastructures, and developed policies, procedures, and educational programs for a variety of organizations. Eoghan has authored advanced technical books in his areas of expertise that are used by practitioners and universities around the world, and he is Editor-in-Chief of Elsevier's *International Journal of Digital Investigation*.

Users Review

From reader reviews:

Hazel Polk:

A lot of people always spent their very own free time to vacation or maybe go to the outside with them friends and family or their friend. Do you realize? Many a lot of people spent they will free time just watching TV, or playing video games all day long. If you want to try to find a new activity this is look different you can read a new book. It is really fun in your case. If you enjoy the book that you read you can spent the entire day to reading a guide. The book *Handbook of Digital Forensics and Investigation* it is extremely good to read. There are a lot of folks that recommended this book. They were enjoying reading this book. Should you did not have enough space to create this book you can buy often the e-book. You can m0ore quickly to read this book from a smart phone. The price is not too expensive but this book has high quality.

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