

**Deloitte.**



**Deloitte Forensic  
Intelligence Methodology**  
Innovative, efficient, and flexible  
digital investigations on a global scale

### **Squaring up with today's investigative demands.**

Traditional digital forensic toolsets and processes often struggle to meet the scale and reach of today's data and investigations environment. The quantity and size of data sources, along with the number of custodians often identified in the scope of investigations, continue their upward trajectory and pose a mounting challenge to investigators.

Further complicating matters, a full forensic analysis that examines every aspect of an individual computer takes time and may not find information or evidence helpful to the investigation. Increasingly, cloud computing platforms, with data stored outside the individual computer, may contain potentially relevant data, exponentially expanding the complexity of an investigation. Additionally, relevant custodian devices may be in various cities and countries around the world. The potential to waste time, resources, and money on finding, gaining access to, and capturing data—as well as the risk of violating data privacy laws—is enormous.

A measured and thoughtful approach to developing investigative intelligence, using digital forensic analysis, represents a more efficient and cost-effective approach. Deloitte offers that approach, along with the forensic skills, experience, and innovative tools to help our clients keep pace with today's investigative matters.

### **Why our approach is different.**

A custodian deletes files potentially relevant to a legal or investigative matter, creating the potential for allegations of spoliation.

A senior executive resigns and goes to work for a competitor, and within weeks that competitor starts winning bids for work from longstanding clients of the former employer.

An investigation involves computer systems and databases in multiple countries with varying data privacy and protection laws, creating the need for a high-level, end-to-end view of the investigation.

These are just a few of the many challenges businesses may face when undertaking investigations of fraud, waste, misuse, cybercrime, and other misdeeds. Increasingly common among these cases is the need for timely, accurate, efficient, and cost-effective analysis of various digital devices and data sources. Deloitte can help.

### **Global reach, local knowledge, consistent approach.**

Deloitte responds with a team of digital forensic professionals in more than 40 countries around the world. Our specialists apply the Deloitte Forensic Intelligence methodology, along with innovative technology and processes, to develop insightful forensic reports that offer client executives and legal counsel with information they need to make critical decisions. Those decisions can have legal, financial, operational, and reputational consequences, so we clearly understand the importance and value of actionable and understandable information.

### **Scaling for virtually any type of investigation.**

We have conducted hundreds of digital forensic investigations, so we understand the critical elements of such cases, including data exfiltration, corporate espionage, software code and programming analysis, data breaches, computer intrusions, and data spoliation. Our methodology scales to the investigative needs of each case, leveraging the skills and experience of our professionals and the innovative tools we have developed to speed investigations without sacrificing quality.

### **A cost-effective approach that focuses on certainty of results.**

We strive to provide fee predictability and a level of certainty that enables our clients to address their situation in a timely and efficient manner. The process may identify additional investigative leads early in the project life cycle pointing toward larger patterns of data exfiltration, cybersecurity breaches, or other fraudulent activity that may be occurring and require a more immediate response. For these types of matters, we may be able to provide bundled pricing that provides additional predictability and certainty.

### **Customized Reporting.**

The Deloitte Forensic Intelligence methodology includes a highly automated approach to report production, along with advanced customized comparisons and visualizations. We use digital forensic tools to streamline common analysis tasks that are often difficult or time consuming. Reports can be customized to meet special investigative needs—for example, showing recent activity around key time periods or responding to and bringing forward information relating to fact-specific issues. In addition, our digital forensic specialists can offer interpretation and explanation of the results and how they may affect the case. We may also offer additional suggestions or analysis based on our experience in similar past cases.

### **Expert witness services.**

Should expert witness testimony be needed as the matter progresses through litigation, we can bring in Deloitte professionals who have testified in cases and jurisdictions around the world. These professionals regularly direct our forensic investigation teams and stand ready to provide specialist reports and witness testimony.

### **A case in point—innovative deleted data recovery.**

If a custodian deletes important files, current digital forensic tools may only be able to recover data remaining on the storage media, limiting the number of files recovered. You cannot be sure if the custodian kept copies of the deleted files in other locations or if you can match the copies to the deleted files.

Using the Deloitte Forensic Intelligence methodology, our team can perform digital forensic investigation into data destruction activity ranging from drive wiping to file wiping and deletion. We first seek to identify the population of data or files wiped or deleted. Then we can use other data storage media, such as hard drives, external storage devices, email servers, or network folders, to identify an active, non-deleted copies of the deleted files. We can also analyze the timing of external storage device attachment and its relationship to the timing of the deleted files, which assists in identifying additional potential copies of the deleted files that may exist elsewhere.

We transform this information into a broad-based picture that can provide executives and legal counsel with information needed to make critical business and legal decisions relating to the case. We can then tie the recovered files to the document review coding calls or the production status of the recovered files, providing key insights into the deleted data and the potential relevance of the deleted files to the matter. Our approach also allows for targeted forensic analysis that scales to the computer system or other electronic devices provided for identifying additional information and evidence.

## Deloitte Forensic Intelligence offerings include:

- Timeline analysis
- USB/removable device analysis
- Deletion/wiping analysis
- File and data usage
- Internet activity and cloud storage
- Comparative hash analysis
- Log analysis
- Application analysis
- Correlation/link analysis
- Analysis for web-based email accounts
- Network analysis

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## Representative examples of how Deloitte Forensic Intelligence methodology has been used to locate evidence:

- Recovering deleted files by matching active files
- Accessing or copying data to/from USB devices
- Identifying USB devices attached to a subset of computers and shared across a custodian population
- Transferring data through a personal email account
- Copying data using a cloud-based service
- Exfiltration of data using mobile devices

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## Contacts:

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