



CELL PHONE DATA FORENSICS



Cell phone records are a vital component in determining factors that may have contributed to a particular event or incident. To use this evidence effectively, crucial information must be preserved and obtained in a timely and thorough manner. ESi has the expertise to help you obtain the appropriate data from cell phone providers and download and analyze data from cell phones in a manner acceptable to the court system, insurance companies, and key stakeholders.



ESi uses court accepted tools and methods to collect available data from cell phones and the service providers. Our consultants utilize these tools and methods to identify critical evidence from the collected data and compare it to other available electronic data. We present the evidence in graphically rich formats and easily understood visuals in reports, demonstratives, and/or presentations.



Cell phones are powerful, portable, and span virtually every industry. With more cell phones than people in the United States, there is often at least one device at the scene of an incident, whether it is a vehicle crash, industrial accident, business dispute, or medical procedure. In these cases, ESi offers specialized expertise in the technical, logistical, and legal considerations involved in obtaining and preserving the data from devices involved in the incident.

KEY CAPABILITIES

Cell Phone Forensics

- Data Retrieval
- Call Logs and Messaging
- Photo and Video Information
- GPS Coordinates
- Deleted Information Recovery

Time Analysis

- Phone Activity at Time of Incident
- Time Deviation Test Calls
- Phone Records vs. Police Report

Location Analysis

- Location at Time of Incident
- History of Stops
- Patterns and Frequented Areas

Call Analysis

- Frequently Called Numbers
- Cumulative Time of Connections
- Ranking and Comparing Connections



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Contact ESi

To get in touch with the ESi Cell Phone Data Forensics Team, call Benjamin Bierce at 463-777-0484, or send an email to bhbierce@engsys.com.



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Connected devices continue to digitize our physical world -- acquiring, analyzing, and transmitting data captured from our surroundings. At the center of it all is our cell phones, which often capture vital information about events that occurred before, during and after an incident. Cell Phone Data Forensics is a critical part of our Data Forensics team, and while determining cell phone usage can be an extremely key element to clarify what happened in many incidents, the analyses can also work in conjunction with our Computer Forensics and Big Data Forensics areas, if necessary.

Once the relevant data is collected and analyzed, we can collaborate with our Visualization Team to create powerful demonstratives. Visualizing details that the data reveals can often lead to invaluable communication tools, such as animations and virtual reality applications, that may serve as a catalyst for resolving the case.

PROJECT EXAMPLES

Our cell phone data analysis services span the full lifecycle of an investigation, and we are commonly sought out for issues involving:

DISTRACTED PERFORMANCE

ESi is often called on to collect and examine cell phones and phone records for activity at the time of an accident. Our team can determine if any of the parties involved were using their cell phones by comparing downloads to cell service records, driver logs, 911 records, cell tower analysis, surveillance cameras, etc. The incidents we are often asked to consult on involve transportation, marine, construction, refineries, and workplace injury.

BUSINESS DISPUTES

Cell data can sometimes expose new information about the activity of the parties involved in a business dispute. Texts, photos, screen shots, and call logs may serve as a record of activity, and cell phone analysis may show whether proprietary or confidential data was transmitted to outside parties, inadvertently or purposefully causing harm to a particular person or business.

HIPAA VIOLATION ISSUES

Analyzing the data from cell phone downloads and the corresponding service provider records can aid in determining if protected patient medical information is being exchanged, perhaps unknowingly, through unsecure cell phone messaging applications.

CORPORATE ESPIONAGE/TRADE SECRETS

Determining if proprietary and confidential data is being dispersed outside of a company is a corporate concern. By design, cell phones can easily take and transmit pictures of sensitive data, situations, product prototypes, etc. While often not intentional, these transmissions can be harmful. In some cases, downloads and service provider records can show instances where intentional or unintentional breaches may have occurred.



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