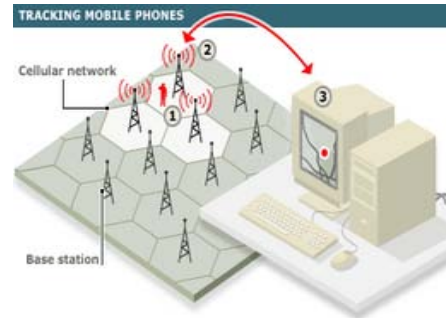


Mobile Phone Forensics - Introduction

Aim

The aim of this Course is to help delegates develop an understanding of the nature mobile phone evidence and its relevance in criminal, civil and arbitration matters, understand how the mobile phone communication infrastructure is setup to determine the flow of information data. Delegates will be taught how to locate mobile phone evidence and interpret call records. Emphasis will be drawn to what is legally possible and permissible in the use of mobile phone evidence. Reliance will be placed on existing legislations and a host of decided case law in the United States and the United Kingdom.



Audience

This course is aimed at Computer forensic investigator, first responders, Prosecutors, Defense lawyers, IT security officers and Fraud investigators.

Introduction

- What is mobile phone forensics
- Relevance of mobile phone and handheld forensics
- Types of mobile phones
- The evolution of the mobile phone - 3G
- How do mobile phones work

The mobile phone communication infrastructure

The mobile station

- SIM
- ME

The base station subsystem

- BTS
- BSC

The Network Subsystem

- HLR
- VLR
- MSC
- EIR
- AUC

The essential components of a mobile phone

- The SIM card
- The ROM
- The operating system
- Data storage – Volatility

Mobile phones as evidence

- The legal importance of mobile phone evidence
- What are the many functions of mobile phones?
- Where is the evidence located
- The phone - Hardware, Software and the Network
- Example of Case laws showing relevance of mobile phone evidence
- Practical class in Mobile phone triangulation P
- Practical class in cell site analysis

Extracting mobile phone evidence

- Preliminaries and expectations
- Evidence integrity and reliability
- Sequence of necessary steps
- Analysing mobile phone evidence
- The Call data records (CDR)
- Spatial mapping of phone records
- Automating mobile phone evidence
- Practical – extracting mobile phone evidence

Testifying as a witness in court

- Do
- Don'ts

Intended Learning Outcomes

On successful completion of this course a delegate will be able to:

Knowledge

- Understand the rudiments of mobile phone communication
- Understand the need for mobile phone evidence integrity and reliability
- Recognise the legal relevance and use all species of mobile phone evidence
- Understand the full life cycle of digital evidence as it affects the use of mobile phone
- Recognise the risk involved in sloppy investigations

Skills

- Identify and determine the relevance of mobile phone evidence in a legal matter
- Secure potential crime scene involving a mobile phone
- Liaise with in-house counsel , external consultants and the police with coherent report
- Produce protocol for incident response involving the use of mobile phone