Disklabs®

THE DATA EXPERTS

SPECIALIST DATA RECOVERY & DIGITAL FORENSIC LABORATORIES

Turnkey Solutions for Law Enforcement & Intelligence Agencies

In this digital age, Law Enforcement and Intelligence Agencies are faced with increasing numbers of situations where digital evidence or electronic data play a crucial role in everyday operations.

Establishing a capability to gather digital evidence and electronic data can play a significant role in developing a more secure environment and improve the ability to meet those challenges from international terrorism and criminality.

Disklabs supports organisations in gaining a real life digital forensic capability to meet those everyday challenges.

Why you should Invest in your Digital Forensic Capability

- Full agency control: the secure management and investigation of sensitive materials.
- Have immediate access to the latest digital forensic technology to help meet your investigative demands.
- Return on Investment: Increased intelligence, prosecutions and convictions.
- Stay one step ahead: Investigating and gathering intelligence on suspects or organisations.
- Demonstrate professionalism by taking Digital Forensics in house.
- Immediate access to more digital evidence.

Why Choose Us?

- Experience of delivering Integrated Digital Forensic Laboratories across Europe, Africa, Middle East and Asia.
- Proven effective laboratory design process, helping to improve operational efficiencies.
- Digital laboratory investment is safeguarded through the extensive experience and knowledge we bring to each project.
- Continued support, ensuring you have the ability to maintain and incorporate future developments in technology.

Integrated Digital Investigation Laboratory Overview

We focus on supporting the many law enforcement and government agencies that we serve, by developing their workplaces so that they can evolve in line with the latest technology trends. We do this through understanding their challenges and delivering solutions to meet their needs.

Based on your requirements, we will design and build a fully integrated Data Recovery and Digital Forensic Laboratory within your facility.

We provide training workshops for your staff to gain hands on experience and become confident in the use of all tools supplied.   Your team will be taught the latest techniques in Data Recovery, Digital Forensics, enabling you to undertake both on-site investigations and laboratory based analysis and to gather electronic evidence and materials in a forensically sound manner.

Our training workshops will give you the ability to gather digital evidence and intelligence from password protected, physically and logically damaged devices where previously it was impossible.

We will help you implement the latest process and procedure to increase productivity while meeting international standards in digital data gathering through the incorporation of ISO17025:2005.

HOW WE WORK - TURNKEY PROJECT MANAGEMENT

We adopt a phased approach to achieve a successful implementation of a digital laboratory within your facility:

Our Phased Approach

1. ### Discovery Meeting
   We will deliver a presentation to set realistic expectations of data recovery success, digital forensic analysis and operational facility set up. The focus of the meeting then moves to understanding your requirements, the operational direction of the agency (Intelligence or Prosecution) and short, medium and long-term aspirations for the Laboratory.

2. ### Site Assessment
   We will determine what is and is not viable in your laboratory. We will advise of lighting, cooling, positioning of hardware and ensure that the right flow of work is possible in your environment.

3. ### Scope the Project
   Detail the deliverables for the projects, (hardware, software, training workshops), working with the client to ensure that all digital laboratory expectations are met or exceeded.

4. ### Personnel Assessment
   To ensure that the training workshops are targeted at the correct level for the staff that are expected to be using the laboratory, post completion of the project.

5. ### Proposal, Contracts, Project Commencement & Timeline
   We work with the client to set out expected start, implementation and completion dates for the project and the training workshops.

6. ### Equipment Purchasing
   We procure all the hardware, software and tools for the project.

7. ### Equipment Staging
   Our team set up all the equipment at our UK facility to ensure that everything is working and compatible, prior to despatch to the clients' site. This ensure that no unexpected problems occur.

8. ### Transportation and Logistics
   Using a bespoke packaging company, all the equipment is securely boxed in a custom-built wooden freight box, ensuring that that there is minimal chance of shipping damage.

9. ### Installation and Equipment
   Our team arrive on-site to supervise the unloading and unpacking of the equipment. They will transport it to your new digital lab space, whereby they will start the installation process, ensuring that the client signs off every piece of equipment as working, once it has been demonstrated working to the client's satisfaction.

10. ### Training Workshops - Practical Real - Life by Experts in Their Field
    Our Trainers are highly experienced experts with decades of experience in their respective fields. Our philosophy is to en sure that those undertaking the workshops get hands on training, to ensure that they are not just talked at, but are capable of showing the instructors that they have learned what has been taught.

11. ### Continuous Professional Development Workshops
    Our Trainers will put in place an ongoing training plan to ensure continuous professional development of your assigned team, keeping them up to date with the latest technological breakthroughs and trends.

12. ### Annual Review
    We will review the project annually, offering any further advice or new solutions to ensure that your digital laboratory emains state of the art and fully equipped for future requirements.

At the end of these phases, your team will be able to apply sophisticated industry standard techniques to undertake the recovery and analysis of data from all major computer, tablets, mobile phones, CCTV and digital devices commonly used by terrorists and criminals.

DATA RECOVERY
LABORATORY OVERVIEW

Using our 17 years of data recovery experience, we will build your laboratory around technically proven and established data recovery hardware and sophisticated digital software tools to create a highly effective operational facility.

Capability

- Recover data from seemingly 'dead' hard drives
- Recover data from hard drives with corrupt firmware
- Recover data from fire damaged hard drives
- Recover data from water damaged hard drives
- Recover data from maliciously damaged hard drives
- Recover data from crashed hard drives
- Recover data from 'clicking' hard drives
- Recover data from scratched CDs/DVDs
- Recover deleted files from disks
- Recover data from memory cards
- Recover data from USB memory sticks

Data Recovery Hardware Tools

We will deliver a range of leading industry hard drive repair tools that will offer a complete solution to a number of known faults. The repair tools will enable you to repair mechanical faults such as stuck motors, damage heads, damaged tracks, burnt chips and complete platter swaps. This will ensure that you can recover data from physically damaged drives.

Data Recovery Software

We will deliver a number of data recovery software tools to enable you to diagnose, image and repair complex hard drive firmware issues. You will also have the capability to target your recovery of specific files, such as emails, documents or images. The data recovery software package enables you to work on both new and older technology giving you the ability to work on all hard drive technologies.

Data Recovery Logical Tools

We will deliver a range of logical tools to enable you to undertake the firmware repairs from damaged hard drives. Logical damage often occurs in the service area of a hard drive and causes a number of complex challenges to accessing the data. Having the ability to view, repair or replace the firmware modules will allow access to the data and the subsequent imaging and investigation.

Scenario

A team of officers investigating a gangland murder case seize a CCTV system believed to contain evidence from a local business premises. Following initial review, the officers find that the incriminating footage no longer resides on the system. The CCTV player is sent to the data recovery laboratory for repair to acquire the incriminating footage. The data is recovered using sophisticated tools enabling the evidential footage to be used in a court of law, leading to the successful conviction of those involved in the murder.

Benefits

Through the successful repair of damaged media devices of both a physical and logical nature, you will be able to facilitate further investigation of evidential data from seemingly impossible situations. This ensures that your Law Enforcement Agencies and Intelligence Departments have the capability to review material previously unattainable.

COMPUTER FORENSIC
LABORATORY OVERVIEW

Forensic Equipment

We will design your laboratory around technically advanced hardware and sophisticated digital software tools to create a highly effective digital forensic facility. We combine practical and theoretical training in the adoption of internationally approve processes and procedures which result in a turnkey operational department capable of analysing and investigating all known situations.

Forensics Capability

- Evidence gathering
- Email investigations
- Open source investigations
- Social media investigations
- Web chat investigations
- Key word searching
- Database analysis
- Password cracking
- Meta data analysis

Scenario

A terrorist cell coordinated its strategy over a period of time using web based communication. The national intelligence department targeted the members of the cell and covertly accessed the terrorist's base of operations, imaging the computer devices on-site.

Having acquired forensic images of the terrorist cell's digital devices, the intelligence department then used digital forensic techniques to infiltrate the terrorist cell's digital communication ring using false identities.

This process enabled the intelligence department to gain greater intelligence and succeed in identifying the funding source and terrorists targets.

Benefits

The examination of the digital media seized as part of an investigation is often key to building a clearer picture of any suspicious activity and communication, thus enabling the Law Enforcement Agency or Intelligence Department to understand the scale of the suspects operation and apply the correct intelligence and investigative resources appropriately.

Computer Forensics Hardware

We will deliver powerful, bespoke computer and imaging systems to enable you to operate in both your new state of the art laboratory and on-site, 'in-the-field'. All hardware will be fully compatible with the latest forensic software to ensure that you are able to complete in-depth investigations.
All specific forensic hardware comes with maintenance and software support.

Computer Forensics Software

We will deliver all the leading forensic computer software solutions used to undertake digital forensic investigations. The main software tools and able to run powerful keyword searches and scripts on the evidence data to target and focus your
investigations. This software has the capability to operate with large amounts of data from all file types. Additional features of the software tools include the capability to forensically image hard drives and other media storage devices.

Computer Forensic Consumables

We will provide your laboratory with a complete 'starter pack' of computer forensic consumables which will allow your team to undertake several hundred forensic examinations. These consumables include gloves, (latex and cotton), exhibit bags, (various sizes), hard drives, DVD's CD's binding and report writing equipment.

MOBILE PHONE FORENSIC LABORATORY OVERVIEW

Forensic Equipment

We will design your laboratory around both technically advanced and established mobile phone forensic hardware as well as sophisticated digital software tools to create a highly effective operational mobile phone forensic facility. We use established and proven practical methods to analyse and decrypt both current and future handsets and mobile phone equipment used by both criminal and the terrorist fraternity.

Capability

Your Mobile phone forensic team will be able to undertake the following:

- Extraction, analysis and presentation of Call data records (call history) including:
- Time of call
- Call duration
- Date of call
- Phone number making the call
- Phone number receiving the call
- International Mobile Equipment Identity (IMEI)
- Voicemail content

Extraction, analysis and presentation of:

- Text messages (SMS, MMS)
- Emails
- Photos
- Internet history
- Calendar events and alarms.
- Handset configuration, (including installation dates)
- WIFI & GPS records
- Deleted data

Scenario

Using intelligence from a confidential informant, Customs and Border Agency officers stopped a suspect at a border crossing. Following a search of the suspect's vehicle, a large drugs cache was found. The suspect's mobile phone was sent to the Mobile Phone Forensic Laboratory for analysis to aid in building a greater picture of the drugs gang known to be involved.

Having recovered the call history from the phone, officers were able to establish who was involved in the supply network and where the drugs were destined to go. This led to the arrests of 5 leading members of the drugs gang along with further intelligence on the distribution network.

Benefits

Through the interrogation of mobile phone handsets (including Smart phones, BlackBerrys, iPhones, Tablets, Satnavs, Memory Cards and SIM Cards) you will be able to analyse a vast source of invaluable data to establish the relationship between suspects. This enables you to profile a suspect's activity and prosecute suspects through digital evidence.

Mobile Phone Forensics Hardware

We include powerful, bespoke mobile phone analysis hardware, including 'chip off' hardware, 'flasher' style boxes. This equipment enables you to tackle a vast number of mobile phone handsets, even if they are password protected or damaged. The key analysis tools will come with annual support and upgrades to accommodate the latest mobile phone handset releases.

Mobile Phone Forensics Software

We will deliver a number of software tools that complement each other within the laboratory, all of which come with software maintenance support. These tools enable the investigation and extraction of data from thousands of different handsets across all manufacturers. The forensic software also has the capability to obtain data from databases held within the phones physical memory.

Mobile Phone Forensics Consubables

We will provide your laboratory with the initial consumables what will allow you to undertake mobile phone examinations for the first year. These items will include batteries, memory cards, gloves, (cotton and latex), exhibit bags, (various sizes), hard drives, DVD's, CD's, bindings and report writing equipment. We also ensure that you have a range of spare parts, (such as spare screens for known issue mobile phones, batteries and cables).

EVIDENTIAL & INTELLIGENCE CAPABILITIES

We will give you the capability to develop and implement processes for gathering digital evidence and electronic data for forensic analysis. This will allow investigators and intelligence analysts to make evidence based decisions securing convictions against suspects.

We will use a practical hands-on approach when showing you how to undertake digital forensics. Through the use of internationally recognized guidelines and established processes, you will learn how to forensically handle, investigate, analyse and extract digital evidence in line-with national criminal justice requirements.

We will ensure your staff to produce forensic reports, enabling them to be accountable in a courtroom environment if/when required.

We will deliver a range of industry leading hard drive repair tools that will offer a complete solution to a number of known faults. The repair tools will enable you to repair mechanical faults such as stuck motors, damage heads, damaged tracks, burnt chips and complete platter swaps. This will ensure you can recover data from physically damaged drives.

We will deliver powerful bespoke computer and imaging systems to enable you to operate both in the field and back at your laboratory. All hardware will be fully compatible with the latest forensic software to ensure that you are able to complete in-depth investigations. All specific forensic hardware will carry annual support.

We include powerful bespoke mobile phone analysis hardware, chip off hardware and flasher style hardware technology. This equipment enables you to tackle a vast number of mobile phone handsets, even if they are password protected or damaged.

The key analysis tools will come with annual support to accommodate the latest mobile phone handset releases.

BESPOKE TRAINING WORKSHOPS

Real Life Capability

We specialise in a 'Practical, hands-on training', covering technical training on all data recovery and digital forensic tools supplied within your laboratory. Out training courses are customised to your staff requirements and include theoretical and practical sessions with live interactive use of the specialist tools supplied, as well as integration of standard operating procedures and work flow process methodology.

All our training is non-vendor specific, ensuring an independent, unbiased and objective multi-tool approach for maximum results.

At the end of our training courses, participants will have the confidence to make informed decisions on the correct technical approach to each case, choosing a suitable strategy to achieve the best possible outcome using the specialist tools provided.

Data Recovery Training Workshops

- Hard drive history and operation
- Hard drive component identification
- Hard drive failures, issues and symptoms
- Fault diagnosis
- Cloning processes
- PCB matching criteria
- PCB physical repair
- Head replacement
- Platter exchange
- Firmware repair
- Zero filling destination drives
- Extracting the data form the working image
- Hot swap data recovery

Computer Forensics Training Workshops

- Forensic Awareness
- Seizing electronic evidence
- Forensics imaging, using forensic hardware tools
- Forensic imaging using Access Data's FTK imager
- Forensic imaging using Encase
- Case Management, (Managing Digital Forensics)
- Digital forensic process and procedure
- Data discovery and analysis
- Recovery of deleted data
- Emails and internet history
- Instructor led forensic exercises
- Live scenario based forensic exercises.
- History, Architecture, and Scale of the Internet, including:
- Browsers, Search Engines and Archives
- Criminal Use of the Internet
- Still and Moving Capture of Web Pages
- Downloading a Website
- Advanced Searching
- Private and Anonymous Searching
- Product Integrity
- Evidence Production
- Evidence Handling
- Legal Issues - Law Enforcement

Mobile Phone Forensics Training Workshops - XRY Complete

- Forensic Awareness
- Report Writing
- Court Room Awareness
- SIM Card Structure & Function
- Memory Card Structure & Function
- Handsets: Basic, Generic & Smart
- XRY Overview
- XRY Practical Session
- Smart Phone Forensics Overview
- Smart Phone Forensics Practical Session
- Locked SIM Cards & Handsets Overview

Mobile Phone Forensics - Advanced Training Workshops UFED Cellebrite Overview

- UFED Cellebrite Practical Session
- Oxygen Forensic Suite Overview
- Oxygen Forensic Suite Practical Session
- Smart Phone Forensics Overview
- Smart Phone Forensics Practical Session
- Flasher Style Box Overview
- Flasher Style Box Practical Session
- Database Analysis
- File Carving
- Chip Off

WHY CHOOSE US?

With over 17 years' experience in data recovery and digital forensics and having provided digital forensic laboratories and associated training on 3 continents, (Europe, Middle East and Asia), we feel we are the right partner for you.

We understand that investing in a world-class Data Recovery and Digital Forensic Laboratory requires a team that can support, advise and guide you over a number of years. We, therefore, seek to forge long term relations based on trust, meeting budget, exceeding expectations, delivery and real-life operational experience.

Our track record is second to none and by engaging us you will benefit from years of experience in the implementation of Turnkey Operational Data Recovery and Digital Computer and Mobile Phone Forensic Laboratories.

Building Technical Solutions for the Future.

By choosing us, you will benefit from years of experience in the field of Data Recovery, Computer & Mobile Phone Forensics. To gain a better understanding of what we aim to provide for you, please contact us to arrange a visit our fully operational Data Recovery and Digital Forensic Laboratories to see for yourself.

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DIGITAL **FORENSICS**   DATA **RECOVERY**   TRAINING & **CONSULTANCY**   DATA **ERASURE**   FARADAY **PRODUCTS**