

# MD5 specialise in recovering deleted data from mobile phone handsets and sim cards...

We are able to forensically recover all viewable data stored on the handset and SIM card using forensic hardware and software.

Our investigations are conducted in a shielding unit to prevent the mobile phone from connecting to the network so that no data is altered during the examination.

- > **Convert all phone specific media (such as videos and recordings) into a format viewable on any personal computer.**
- > **Provide a printout and compact disk containing the data.**
- > **A statement is also provided for Court purposes.**
- > **Extensive experience in providing expert witness testimony.**
- > **We provide expert opinion upon prosecution reports, procedures and findings.**

## **Deleted Data**

The majority of data on modern mobile phones is stored on the handset memory rather than the SIM card.

MD5 are the UK's leading specialist in the recovery of deleted data from handset and SIM card memory. We are able to recover any form of deleted user data from all makes of handset including phonebook entries, call logs, text messages, pictures and videos etc.

MD5 provide training courses on the recovery of deleted data

## **Security Codes**

Many handsets have additional security features which enable a user to password protect the data held on a handset. This prevents access to most of the user data.

At MD5 we are able to access the memory chip and extract the password without altering any data. This allows us to enter the password as the user would to view and download the data.

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mobile phone and computer forensic specialists



## **PIN Codes**

A PIN code (Personal Identification Number) is a 4 to 8 digit code allowing the user to activate a lock feature, thus preventing unauthorised access and use of their SIM card. Although it is possible to enter another SIM card into the handset to view the user data stored, the call logs are linked to the SIM card that was present when the calls were made or received, therefore without this specific SIM card it is not possible to view the call logs.

Without the PIN code it is necessary to apply for the PUK code (Personal Unlock Key) from the service provider. An 8 digit master code that each network provider retains for security reasons. It will over-ride a PIN locked SIM card allowing full memory access.

We have developed a method of partially cloning a PIN code protected SIM card to gain access to all the user data stored on the handset including the call logs. It is still necessary to obtain the PIN/PUK code to access the data stored on the SIM card and to verify the downloaded data for a complete investigation.

## **SIM Less Handsets**

Many handsets record the details of the last inserted SIM card. Using specialist equipment we are able to recover these details and then gain access to all the user data stored on the handset including the call logs. This is useful when a handset without a SIM card inserted needs to be examined.

## **Damaged Handsets**

We are able to repair most forms of damage to handsets to allow us to access the user data stored.

We are also able to recover data from water and fire damaged handsets by directly accessing the memory chips on the board, extracting and decoding the user data stored.

## **Cell Site Analysis**

Cell Site Analysis is used to establish the location or movement of a phone when calls or text messages are made or received.

This service has been regularly used either for the prosecution to verify that the suspect was at the scene of a crime or alternatively by the defence to corroborate an alibi.

We utilise information provided by the service together with radio testing on site at the masts in question to coordinate the location.

MD5 has the benefit of utilising over 16 years experience dealing with GSM evidence.

We are regularly asked to provide an expert opinion upon prosecution or defence cell site analysis reports to comment upon procedures, test results and conclusions.

If you require any further information, please contact us by phone or email to [info@md5.uk.com](mailto:info@md5.uk.com)

*“ In a recent murder investigation information came to light that incriminating evidence in the form of text messages was stored on a suspect’s Samsung mobile phone. A forensic company examined the handset and failed to find any text messages. Using our specialised hardware and software we were able to recover over 52,000 deleted text messages including a text message which proved vital in the subsequent trial. ”*

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INVESTOR IN PEOPLE



URS CERTIFICATE NO. 26889

**mobile phone and computer forensic specialists**



# A versatile department that can handle ALL your computer forensic needs...

MD5 Limited are located in a state-of-the-art, fully equipped computer forensic laboratory, that is fully compliant with ACPO standards. MD5 are constantly researching technology to enhance its investigative and forensic capabilities. All services are undergoing certification to the ISO 27001 Information Security Standard.

## **Fully Trained and Security Cleared Investigators**

MD5 Limited invests heavily in the quality and experience of its investigators, with over 50 years of accumulated experience from both law enforcement and corporate computer forensic backgrounds. Additionally, all members of the team are security cleared.

## **Search and Seizure**

MD5 are able to offer a proven computer incident security response service. This 24/7 response team will attend on-site to ensure critical data is not lost or changed and that correct procedures are adopted if equipment is seized.

We are able to respond to either overt or covert seizures. (MD5's experience has been used to give lectures and presentations on the correct search and seizure practices at SIO training courses).

## **Specialist Equipment**

MD5 use leading edge forensic hardware and software to enable them to deal with large quantities of on-site PC's and servers. We have the necessary experience and expertise to deal with 'live' acquisitions.

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**computer and mobile phone forensic specialists**



## Easy to comprehend communication and findings

Our investigators are encouraged to think laterally when carrying out detailed examinations and analysis of electronic data; they are able to put their findings in laymen's terms to enable maximum impact whether the report is for internal use, a tribunal or required at a civil/criminal court.

They have vast experience of attending court and providing expert witness testimony, as well as explaining technical findings in a simplified, yet understandable and fully comprehensible manner.

## Research and Development

MD5's intensive research and development has led to the successful development of the software application VFC that has greatly enhanced the computer forensic arena's software toolbox.

This tool and the underlying methodology, in conjunction with our investigators experience, has helped to successfully dismiss allegations from a defendant claiming the 'Trojan Horse' defence, or that malicious software was responsible for the illegal images found on their computer hard disk drive.

## Ad-hoc or contract – it's up to you!

MD5's criminal and commercial investigations can be performed on an ad-hoc basis, or as an outsourced service. Our outsourced services are currently being used by several police forces, other public sector organisations and corporations.

## Electronic Discovery

MD5 have combined their forensic skills with e-discovery and document analysis to offer a complete service ranging from extracting documents, images and emails to document analysis and searchable presentable findings.

## Registered Expert Witness

All our work adheres to the ACPO 'Good Practice Guide for Computer based Electronic Evidence'. We are registered with Sweet & Maxwell as Computer Forensic Expert Witnesses.

If you require any further information, please contact us by phone or email to [info@md5.uk.com](mailto:info@md5.uk.com)

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