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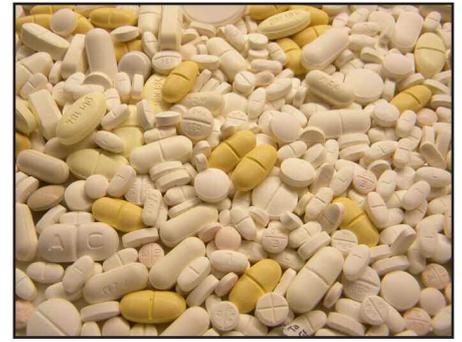
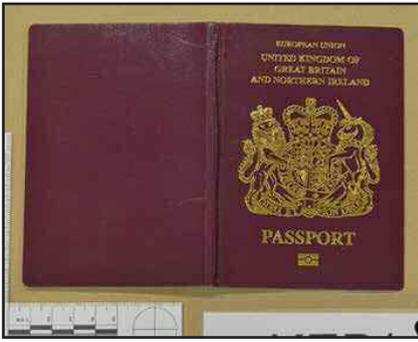
The Investigator

ESSENTIAL READING FOR TODAY'S INVESTIGATORS



Counterfeit Cops

Stamping out identity fraud



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Welcome to the latest issue of the Investigator.

This issue includes the latest developments by the Met initiative to combat identity fraud which is increasing not just in the UK but worldwide. We also look at the latest cutting edge technology that is helping investigators successfully solve major crime cases and some of the most recent successful investigations carried out by forces and law enforcement agencies such as the National Crime Agency and Europol.

We also look back on the crimes of the past and the significant cases that not only made the headlines from yesteryear but have also helped changed the face of criminal investigation thanks to the Crimes Uncovered exhibition that is being displayed at the Museum of London.

It helps to look back to appreciate just how far we have come in professionalising criminal investigation and how modern day investigations are enhanced by technology. It is also a sobering thought to consider that so many people are affected by one single crime and that it should not be focussed solely on the criminal but on the victims, their families and on the police and prosecution teams.

Our job at The Investigator is to champion the good work of investigators and law enforcement teams across the world and we hope this latest issue goes some way to providing a forum to showcase the excellent results and hard work of hundreds of thousands of investigators who rarely receive praise for what they do.

We hope you enjoy reading their stories and we would be pleased to hear from you if you would like us to feature your story in a future issue.

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Counterfeit Cops

A unique project being run by the Met Police called **Operation Amberhill** is tackling the scourge of counterfeit and forged documents in the UK. **Carol Jenkins reports.**

The trade in false identity documents is becoming big business in the UK with sinister gangs pocketing thousands of pounds from the crimes. Just one identity document can sell for thousands of pounds and then can be used to commit thousands of pounds of criminality. These false identity documents can be used in a raft of crimes including mortgage fraud, benefit fraud and even by sex offenders and other serious criminals such as terrorists.

This increase in illegal documents prompted the setting up of a specialist Identity Fraud team in the Met Police called Operation Amberhill in 2007 – thought to be the first of its kind in the world.

Big business

DC David Knowles from the unit recently told London business leaders that the problem was not just prevalent in the UK and that it was becoming a 'worldwide phenomenon'.

He described just how easy it is becoming for criminals to either make documents from scratch or alter existing documents and sell them for big money to punters who are using them to commit crime. He was speaking at an event organised by Hillingdon Borough Commander Det Chief Supt Nick Downing who is working at building closer links between his officers and local businesses in a bid to reduce incidents of crime.

DC Knowles told the audience that the unit had now recovered more than a 100,000 documents over the past eight years and that this was just the tip of the iceberg. To date some 65 people have been arrested following investigations into the production of counterfeit IDs, and numerous others have had their criminal activity disrupted. The IDs, include passports, visas and drivers' licences. DC Knowles said that shotgun licences were traditionally easy to alter and were accepted by organisations such as banks as bone fide

ID. Moves have now been taken to tighten up on this system and make it harder for shotgun licence to be altered and used for fraudulent purposes.



Criminal activity

Amberhill recovers both hardcopy false IDs and documents stored on computer hard drives. It then works with government and private industry to identify where the IDs are being used to disrupt criminal activity. It also plays a key role in safeguarding, working closely with the Disclosure and Barring Service (DBS), identifying fraudulent documents which have been used by individuals applying for jobs working with children and vulnerable adults.

It is estimated by Cifas, a fraud prevention service, that since 2010, Amberhill has identified over £33million of fraudulent activity and prevented fraud totalling a further £75million.

The 100,000th document - a counterfeit construction skills card - was recovered last recently from the hard drive of a man arrested by the National Crime Agency. The defendant received a sentence of five years and five months in January 2015 for forgery and counterfeiting.

In one case, a registered sex offender used a false ID to get work in the care industry. In other cases, fake drivers' licences have been used by people who have never even sat a driving test, and numerous false documents, including bank statements and utility bills

have been used by fraudsters to obtain mortgages and loans."

The unit works with the likes of the Disclosure Barring Service and other bodies to establish if and where these IDs have been used, so that we can stop their use and arrest the individuals involved.

Document Differences

DC Knowles showed business leaders a number of different documents – both false and real including passports and bank statements and asked them to guess which ones were real and which were false. The audience acknowledged that it was difficult to decipher the real documents from the false documents.

DC Knowles outlined the difference between forged documents which are genuine documents that are altered or changes and counterfeit documents made to order from scratch and Fraudulently Obtained documents that are documents that obtained by a person in the name of someone who is deceased.



He also warned businesses about accepting novelty identity documents that are currently popular and also look realistic.

He told the audience that the unit was always looking to build closer links with businesses and to work more closely with other police forces in order to share intelligence that is stored on the database and keep abreast of

current trends and crime patterns. Their work has paid off as since its inception the unit has prevented millions of pounds of fraud taking place.

Landmark Case

Legislation has been recently been introduced to make it illegal to possess equipment designed for making false identity documents with the intention for them to be used to carry out fraud. In a landmark case in London in October two men and a woman were jailed after becoming the first ever people to be convicted of such offences in the UK.



They are Tayyab Ahmed Al-Riaz, 34 (14.6.81) and Valentina Miu, 31 (21.4.84), both of East Ham, E6, and Muhammed Saleem, 28, (16.2.86), of Abbey Wood, SE2.

The three were convicted of a total of ten counts of fraud and false identity documents offences, following a trial at Southwark Crown Court.

The two men, Muhammed Saleem and Tayyab Ahmed Al-Riaz, were each jailed for eight years. Valentina Miu was jailed for four years.

Saleem was arrested on Sunday 6 December, 2014 after police linked him to a separate case where two men were stopped by officers from the Met's Counter Terrorism Command (SO15) at Dover a week earlier and found to be in possession of false

identity documents. Officers executed a search warrant at Saleem's address in Abbey Wood, where they found letters addressed to 'Mohammed Salim' showing an address in East Ham, which later turned out to be Al-Riaz and Miu's address.



False identity

Officers attended the East Ham address, where they found several stolen passports, travel and identity documents, counterfeit passport pages, holographic patches and laminate passport coverings and counterfeit UK residence permits. Two memory sticks were also found, containing material designed to assist in the production of false identity documents.

As well as the false identity documents and material, officers discovered a number of lost or stolen bank cards and two 'Chip and Pin' readers. Items were found in various rooms inside the house, some in locked filing cabinets and others inside jacket pockets or rucksacks.

All three were arrested on 6 December 2014 and were charged on 8 December 2014 with various offences relating to possessing counterfeit identity documents, material and apparatus useful in the making of false identity documents.

Further enquiries also led detectives to identify a bank account held by Miu, into which £10,000 cash that had been fraudulently obtained had been paid into the account with more than £170,000 laundered through that account alone. The money was recovered by the bank and Miu was further charged with money laundering.



THE CRIMINAL MUSEUM AT THE CONVICT OFFICE, METROPOLITAN POLICE DEPARTMENT, SCOTLAND-YARD.

Some of history's most memorable crimes over the past 140 years and the investigations and people behind the headlines are now on display to the public at the Museum of London. Carol Jenkins reports.

For the first time ever, never-before-seen objects from the Metropolitan Police's Crime Museum are on public display in this major exhibition at the Museum of London entitled 'The Crime Museum Uncovered'.

Since its establishment by serving officers in the mid-1870s the Crime Museum has previously only been open to police professionals and invited guests. Now, using original evidence from this extraordinary collection, we unlock real-life case files to take you on an uneasy journey through some of the UK's most notorious crimes from Dr Crippen to the Krays, the Great Train Robbery.

Significant exhibits include the poster appealing for information on the mysterious

East End killer Jack the Ripper, The Smith & Wesson .38 revolver used by Ruth Ellis to murder David Blakely in 1955 and the replica Millennium Star diamond used in Operation Magician to foil Millennium Dome robbery. You can also see the gun used by Edward Oxford in an assassination attempt on Queen Victoria in 1840, handcuffs reputedly worn by notorious thief, Jack Sheppard, in the early 18th century and the mask from the murder case of PC George Gutteridge by Frederick Browne and William Kennedy in 1927.

Other exhibits include Implements used in counterfeiting and forgery and the button that was used to convict David Greenwood of murder in 1918.

Changing crime

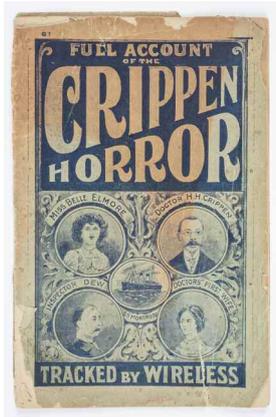
Created with the support of the Metropolitan Police Service and the Mayor's Office for Policing And Crime (MOPAC), the exhibition considers the changing nature of crime and advances in detection over the last 140 years, as well as the challenges faced in policing the capital, such as terrorism, drugs and

rioting.

Curator Jackie Keily told the Investigator that the Met Police and the Mayor's Office for Policing and Crime were keen that the exhibition should be told from the perspective of real people whose lives had been touched by such shocking crimes.



Trunk used by John Robinson to conceal the body of Minnie Bonati, 1927



Booklet on the Dr Crippen case which fascinated the public, c.1910

She was given the unenviable task of sifting through the collection's 2,000 exhibits to decide which items would be included. She worked her way through each case with the help of her colleagues and they chose some 600 exhibits from 125 crimes of the past which made the final exhibition.

"We were really lucky to be given free reign by the Met and Mayor's office and we looked at every exhibit and thought very carefully about what to include," she said.



Medicine case belonging to poisoner and Jack the Ripper suspect Dr Neil Cream, c.1892

"We chose the items we thought were the most interesting stories and would appeal to the widest possible audience."

Murder bag

The exhibition is of particular interest to investigators as it charts some significant developments over the years as well as presenting fascinating stories. One such

example is the investigation in 1924 of Patrick Mahon who killed his lover and dismembered her body. This led to the development of a murder bag being created for detectives to preserve evidence.

The museum team also found a set of miniature furniture that was used to build a reconstruction of a crime scene that was used in the case. An extract from the popular publication Reynolds News at the time spoke all about the reconstruction and how groundbreaking this was in 1924 at the time of the Mahon case.



Mask from the murder case of PC George Gutteridge by Frederick Browne & William Kennedy, 1927

The newspaper also mentioned the fact that police were going to use photographs of the crime scene which was a novelty at the time. Ms Keily said the exhibition tries to draw out the human stories behind the cases and attempts to bring alive the objects and exhibits.



Handcuffs reputedly worn by notorious thief, Jack Sheppard, early 18th century

"What is particularly fascinating is the power of mundane and ordinary items such as kitchen knives have used as weapons and end up as evidence in an investigation," she said.

"These ordinary items have the power to

taking you into that crime and into that story that really makes for what we hope is a compelling experience."

The exhibition looks not just at the part that offenders played in these crimes but it pays homage to the victims, their families, the investigators in the case as well as forensic experts, coroners and pathologists that all played an integral part in these investigations.



Leslie Stone: Shoe prints recovered by police from murder scene of Ruby Keen, 1937

Enduring fascination

It also explores the impact on crime and tries to personalise something that is often depersonalised. The exhibition seeks to confront how as a society we respond when normality is shattered and lives torn apart. It also questions the nature of our enduring fascination with crime stories.



The Richardsons: Electrical generator used to administer electric shocks by the Richardson gang, 1960s

Mr Keily said she felt a tremendous sense of responsibility in choosing the exhibits and



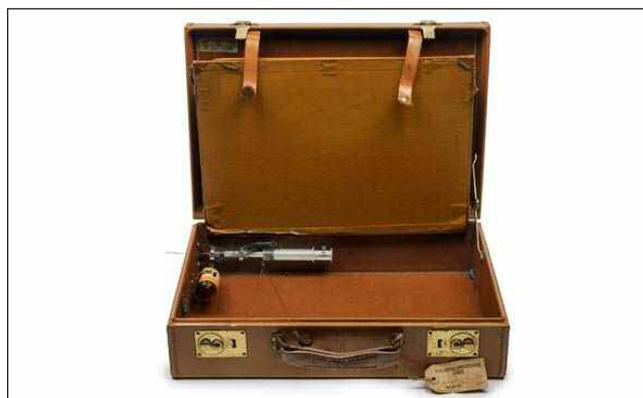
Gun used by Edward Oxford in an assassination attempt on Queen Victoria, 1840

compiling the exhibition and that is it vital to question how appropriate an exhibition is of this nature and how appropriate the individual exhibits are.

It does not seek to glorify crime or present it in a grisly or mawkish fashion. At the end of the exhibition there is a film called Reflections which looks at how appropriate an exhibition of this nature is and also what we as a society can learn from some of the most notorious crimes of the past.

The exhibition is part of a much broader debate about how we deal with material like this and how far we go to highlight crimes of the past without glorifying them.

The exhibition is running until April 2016 and visitors are advised to book in advance due to its popularity.



The Krays - briefcase with syringe and poison

For more information go to:
<http://www.museumoflondon.org.uk/london-wall/whats-on/exhibitions-displays/the-crime-museum-uncovered/>



the UK streets and nightclubs.

"We are determined to do all we can to disrupt and stop drug traffickers and the organised criminal networks involved in this illegal trade."

Mark Robinson, Assistant Director for Border Force Yorkshire & Humber, said: "We welcome this sentencing which sends a strong message to people who think they can smuggle drugs into the United Kingdom.



Ramon Nicatia

"Border Force officers use a range of high-tech search equipment to detect illegal substances and prevent them reaching the UK's streets.

"As this case demonstrates, we work closely with law enforcement colleagues in the NCA to disrupt drug smugglers and put those responsible behind bars."

In a separate case, a group of smugglers who tried to import a consignment of high-purity heroin from Islamabad hidden inside a chapatti oven have been sentenced to a total of 26 years in prison.

Mohammed Aslam Khan, 61, from Ashton-Under-Lyne, and Arbab Akhtar, 29, from

Blackburn, both admitted conspiring to import Class A drugs. Kulwinder El Assad, 40, from Tipton in the West Midlands, was found guilty after a four day trial at Leeds Crown Court.

She was sentenced to 12 years in prison, while Akhtar and Khan received eight and six year jail terms.



The drugs were hidden inside a chapatti oven

National Crime Agency investigators used phone evidence to prove the links between the conspirators and place them at key locations in the plot.

The NCA was called in after Border Force officers at Leeds Bradford Airport opened an unclaimed package on a luggage carousel.

Inside they discovered the oven, which contained almost 13 kilos of heroin. If cut and sold in the UK the drugs would have had a potential street value of around £1.9 million.

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Domestic Development

Investigators can now prosecute domestic abusers without relying on the testimony of a victim – a move that could bring about a culture change in the approach to domestic prosecutions. The Investigator reports.

In an unprecedented step, new guidance introduced by England and Wales means that officers can now pursue domestic violence convictions independently of a victim. This is a significant move that officials hope will lead to an increase in convictions and a greater emphasis of the importance of pursuing such cases.

The Authorised Professional Practice, released by the College of Policing, backed by domestic abuse and women's charities, directly addresses for the first time senior officers about their responsibilities to maintain a body of specialist officers to deal with cases of abuse and ensure that pathways to support for victims are clear.

It emphasises the importance of solely evidence-led prosecutions instead of relying on victims to build the case and focuses on the dynamics of abusive relationships and coercive control, a new offence expected to come into force later this year.

Risk assessment

Unlike previous guidance, it includes a section aimed primarily at supporting first responders at an incident who must deal with criminal offences, conduct a risk assessment and safeguard the victim.

The College is also releasing a toolkit to support first responders, along with checklists for call handlers and front counter staff when contacted about domestic abuse. College of Policing lead for crime and criminal justice, David Tucker, said that the crime of 'domestic abuse is a pervasive problem across the UK involving both men and women and officers do exemplary work in safeguarding victims and bringing

offenders to justice.'

"To tackle a domestic abuse case successfully, police need to see the big picture behind an individual incident. This depends on officers being properly trained and having access to information about both the victim and the perpetrator; effective and accurate risk management, partnership working and information sharing. The failure of any of these links can be the difference between life and death for a victim," he said.



Culture change

Mr Tucker point out that research indicated the need for a culture change within policing attitudes towards domestic abuse.

"Sometimes police cannot understand why a victim would stay in an abusive relationship. There are dozens of reasons why victims feel unable to leave or support prosecution. It is the responsibility of the perpetrator to stop the abuse and the responsibility of the police to bring the perpetrator to justice – the victim is not responsible for either.

"Officers need to investigate domestic abuse proactively and our APP and toolkits, as well as our training programmes and research, are designed to help them do that."

It has been launched to coincide with Peace Day and this year the College of Policing is promoting its work against domestic abuse.

Police progress

Polly Neate, Chief Executive of Women's Aid, said: "Women's Aid welcomes the College of Policing's APP, following the HMIC report in 2014 that unequivocally demonstrated the need for police improvement in their response to DA. This setting of standards for

the police represents progress in this area.

"In particular, Women's Aid welcomes the emphasis on coercive and controlling behaviour. It is vital that police officers understand coercive control; this will help them to identify victims and not blame victims for staying in abusive relationships.

She said that her organisation welcomed the focus on changing the attitudes of police officers and the understanding that tackling DA must be a force-wide priority – not dependent on the commitment of an individual officer.

"Our work with survivors also highlights the importance of the first responders' approach to victims - so a greater understanding and focus on the role and responsibility of the police in a DA situation is extremely positive." Women's Aid is the national charity working to end domestic abuse against women and children. It is a federation of over 220 organisations providing more than 300 lifesaving services to women and children across England.



Diana Barran, Chief Executive of SafeLives, said: "The role of the police in responding to domestic abuse cannot be underestimated. The new APP represents a huge step forward in helping police to understand the complex nature of domestic abuse and – in particular – coercive control. Most importantly, it places the responsibility for stopping the abuse squarely with the perpetrator."

SafeLives is a national charity dedicated to ending domestic abuse. Previously called Co-ordinated Action Against Domestic Abuse (Caada), it chose its new name because its remit is make sure all families are safe. The organisation says that after getting the right help, more than 60 per cent of victims report that the abuse stops.

FINDING THE DIGITAL ELEPHANT IN THE ROOM

A STORY ABOUT DIGITAL INVESTIGATION TOLD USING SIX BLINDFOLDED MEN AND AN ELEPHANT

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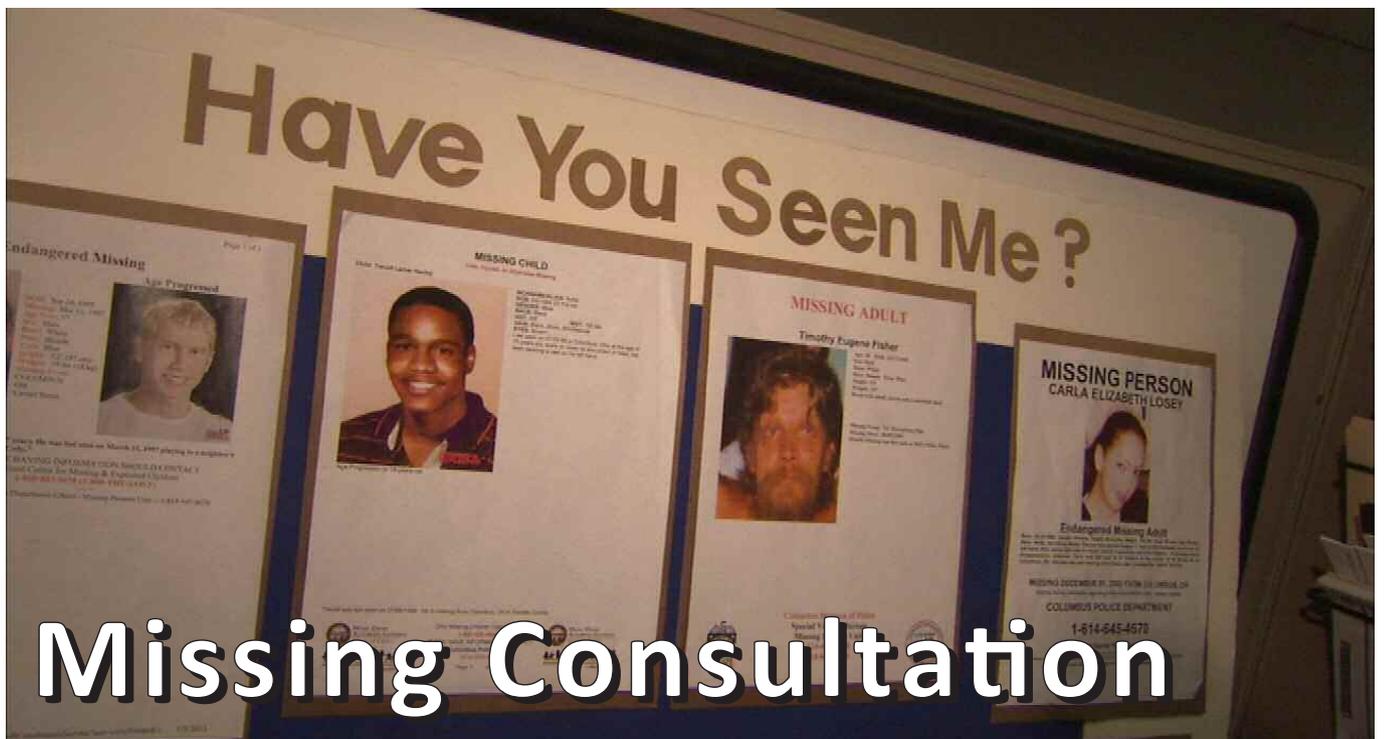


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The College of Policing has released draft police guidance on missing persons for consultation, with a new focus on social media. The Investigator reports.

The consultation, which was due to run until October, will lead to official guidance for police officers – known as Authorised Professional Practice (APP) – to support them in missing persons investigations.

While the proposed work is largely a consolidation of existing guidance, the College has added a new section on the use of social media in investigations. There is also an added focus on exploring the missing individual's lifestyle to yield lines of enquiry.

The APP emphasises the importance of fully investigating the reasons behind an individual going missing even after the person is found, to ensure a full pattern is recorded in the case of repeat absences. It reiterates that safeguarding should be a priority for vulnerable people and that police should work closely with other agencies for a response to a missing person report to be as effective as possible.

The guidance includes several quick-reference guides for police officers and staff dealing with each step of a missing person

investigation, including call handlers, first response officers, supervisors, investigators and missing person coordinators.

College of Policing's Policing Standards Manager, Sharon Stratton, said: "Missing person reports often concern extremely vulnerable individuals and, while establishing their whereabouts is rightfully the immediate priority, full investigation of the circumstances behind them going missing is vital."

He said that the consultation guidance emphasises using social media as an investigative tool, as well as taking into account the individual's lifestyle.

"This will help forces both in tracking down the missing person and in building a clear picture of their vulnerabilities and needs," he said.

"The College, as the professional body for police, recognises the importance of effective multi-agency working to safeguard and protect vulnerable individuals."

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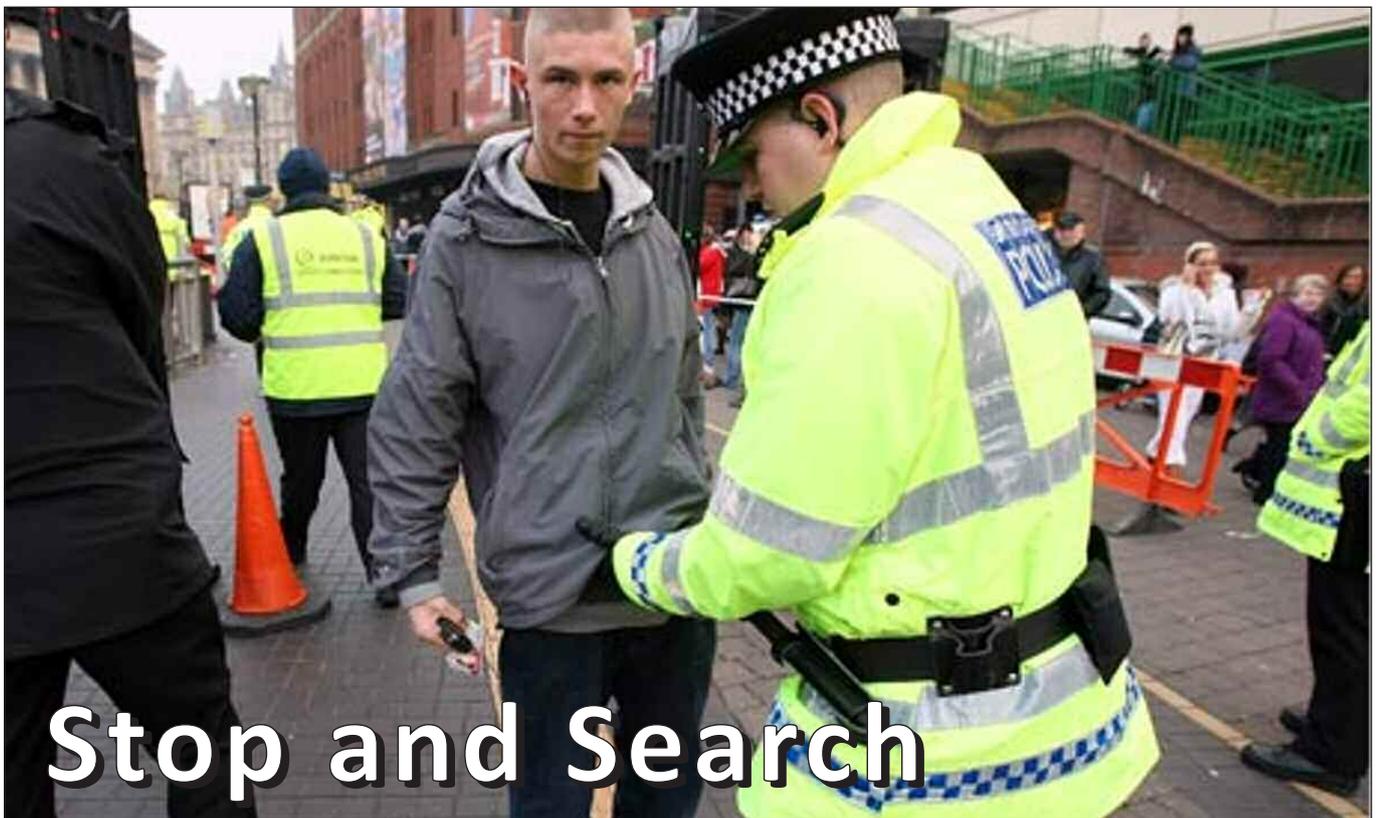


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Stop and Search

The UK's College of Policing has begun a stop and search training pilot with six forces to help police recognise unconscious bias. The Investigator reports.

Hundreds of officers from six police forces have begun a stop and search training pilot to help police recognise unconscious bias. The new training aims to address questions that have been raised about the fairness and effectiveness of the way that the power is used and focuses on the law, decision making and how officers handle encounters with the public.

For the first time, the College of Policing is taking an evidence-based and experimental approach to the development of training and will involve more than 1,300 officers from the Metropolitan Police Service, Cleveland, Sussex, Thames Valley, Greater Manchester and the British Transport Police.

Designed

Approximately 220 officers from each force were chosen to take part in the pilot, which was designed with the Equality and Human Rights Commission.

Half of those officers will get the training while the other half will not be trained and will continue with business-as-usual.

The impact of the training will be analysed by the College of Policing and independent researchers to establish if:

- the training changes the way officers approach stop and search
- the 'hit rates' improve (where an item is found on a person)
- the quality of the grounds for stopping someone have improved

Randomised

Richard Bennett, head of uniformed policing at the College of Policing, said: "This is the first randomised control trial to be undertaken in British policing for the use of stop and search training.

"We know the public support the police use of stop and search powers especially where the powers are used to keep them safe." He said that the challenge now "is to make stop and searches more effective because high numbers of negative searches can help to create a view that they are unfair and constitute a disproportionate response from police."

"The training will help officers to recognise unconscious bias and monitor how they make decisions about the use of stop and search powers," he said.

"The pilots, which will help us to develop future police training, should ensure stop and search powers are used with greater precision and see a reduction in unproductive searches."



Opinions

The evaluation aims to explore people's reaction to the training and officers will be asked for their opinions in interviews and when out on patrol.

EHRC Commissioner, Lorna McGregor said that 'stop and search must be lawful, non-arbitrary, non-discriminatory and based on reasonable suspicion. This is why we contracted the College of Policing to develop a comprehensive stop and search training programme to help ensure officers meet these obligations.'



"We have worked closely with the College to develop and design the training to help

police officers understand the importance of applying the rules fairly when stopping members of the public. Doing so is vital in building and maintaining trust between the police and the communities they serve, and increasing public confidence in the police," he said

"We will continue to work closely with the College of Policing to help them ensure the training programme is properly monitored and evaluated before being implemented in forces across the country next year."

Completed

Evaluation of officer perceptions of the training was due to begin this month. The design, piloting, evaluation and preparation for the national implementation of the training is sponsored by the Equality and Human Rights Commission and must be completed by the end of March 2016. The training is classroom based and includes pre-reading by officers.



It includes learning outcomes which will allow officers to:

- Outline the different types of police initiated encounters with members of the public
- Describe the potential adverse impact of a stop and search encounter on the officer, the person being searched and wider society
- Explain the impact unconscious bias can have on decision making
- Explain the impact that conscious bias can have on decision making
- Explain how to establish whether there are reasonable grounds for a lawful stop and search under Code A of the Police and Criminal Evidence Act 1984



High Seas

A staggering 20 tonnes of cannabis that was hidden in the deck of a merchant vessel was seized as part of an international operation co-ordinated by Europol. The Investigator reports.

The international operation carried out in October and led by Italy and closely supported by France, Spain and Europol, resulted in the discovery and seizure of over 20 tonnes of cannabis resin. The drugs were hidden in the deck of a merchant vessel called Jupiter, flying the flag of the Cook Islands. Ten Syrian citizens were arrested, while six Indian citizens were taken into custody for further investigations. All of them are crew members.

The Italian Guardia di Finanza and DCSA, closely supported by the French OCRTIS-DCPJ and CeCLAD-M, Spanish Guardia Civil and Europol, launched this sharp strike against transnational drug trafficking activities in the Mediterranean Sea.

On the evening of 26 September 2015, the vessel was located by the air and naval forces of the Italian Guardia di Finanza, assisted by a Spanish Guardia Civil aircraft. The Italian intervention teams of the Guardia di Finanza boarded and secured the vessel, escorting it to the Port of Cagliari (Sardinia).



The boarding of the vessel took place in compliance with Article 17 of the UN Convention against Illicit Traffic in Narcotic Drugs of 1988.

After long and extremely complex search activities carried out by the Gruppo



Operativo Antidroga, Counter Narcotics Unit of the Guardia di Finanza- Nucleo di P.T. di Cagliari, the enormous illegal load was found skilfully stashed in a large false bottom under the hold of the vessel with its only access hidden by hundreds of tonnes of granite being used as legal cargo.

simultaneous deployment of Europol personnel and specialist tools.

This joint operational cooperation framework facilitated the constant monitoring of the drugs shipment along its journey, enabling the most effective planning to ensure such a successful intervention.



French OCRTIS representatives provided on-the-spot assistance in the initial stages of the searches.

The above mentioned law enforcement authorities have invested their resources, expertise and strengths into a coordinated and robust multilateral working model against large-scale drug trafficking across the Mediterranean Sea, alongside Europol, CeCLAD-M, MAOC-N, and other EU and Third States affected.



Their expertise played a decisive role in the subsequent stages of the investigation, leading to the discovery of the illegal activity behind the shipment. Essential intelligence analysis services were provided through the

Europol provides continuous support to this international law enforcement partnership, triggered by the forerunner unit of the Guardia di Finanza – Nucleo di P.T. di Palermo, by facilitating the exchange of intelligence between the key countries and the subsequent criminal intelligence analysis, hosting and financially supporting operational meetings, and providing on-the-spot support.



King Crimson

Unlicensed gang masters who exploit vulnerable immigrants in the UK are continuing to prove a challenge for investigators. Investigation and case management software is helping authorities wage a war against such criminals. The Investigator reports.

WPC Software is helping the Gangmasters Licensing Authority improve communications and bring rogue labour providers to justice more quickly.

The job of protecting them falls to the Gangmasters Licensing Authority (GLA) which was set up to curb the abuse of workers, many of who come from Eastern Europe.

The GLA regulates the businesses that are licensed to provide labour in this country, whether it's picking produce on farms or associated processing and packaging work. Its central intelligence team is based in Nottingham and has about 30 enforcement officers working from home across the UK.

The GLA needed a solution that would allow

investigators to record all allegations of worker exploitation in one place. Because officers are spread across the country, the ability to communicate any potentially linked allegations was paramount.

The GLA has adopted WPC Software's Crimson investigation and case management system. Crimson provides a central hub through which all information relating to allegations and subsequent investigations can be stored.

The .Net software system allows the GLA's enforcement officers to work remotely, updating cases in real time and feeding information to the investigative and licensing teams.

"Once my teams receive an allegation they do all the necessary background research and prepare cases for investigation and enforcement as required," said the GLA's intelligence manager Ian Walker.

"But we didn't have a structured means of capturing all the information from cases that my teams were working on. Officers had

developed their own personal ways of recording the enquiries they had undertaken so this was stored on different hard-copy documents and spreadsheets. Crimson brings all that information together in one place.

"The system allows us to capture everything, from an initial complaint right up to the point of taking enforcement action. We can start an investigation at the click of a button in Crimson."

Crimson has been developed to suit a variety of investigative situations and is comprised of modules for the management of investigations, incidents and intelligence.

"We get information from a variety of different sources which includes workers and labour providers, our own staff and offices, as well as other law enforcement bodies and government departments," added Mr Walker.

"And having received that information we look for opportunities to enrich and corroborate it where we can. That adds to our risk assessment and prioritisation process.

"Everything we do, and the information we receive, we capture together within Crimson, either within the incident record if pre-investigation or, if the decision is taken to progress to investigation, within the investigation side of Crimson.

"Once a case goes for investigation, the investigating officers can link to the incident record and see all the enquiries that have been carried out previously. This means they don't have to duplicate all the work that has already been done.

"By using Crimson we have been able to reduce the time spent double keying information from system to system."

When working with outside organisations, such as local authorities or UK police forces, the GLA is now well placed to put together a 'big picture' of incidents providing critical

support and specialist knowledge to all agencies involved.

Crimson also has a separate intelligence module.

"We can import information in document form from our existing intelligence system into the incident and investigation records within Crimson," said Mr Walker.

"This has improved our intelligence capability as well because it allows us to join up all the dots.

"Depending on how much you choose to use this module, Crimson is an effective intelligence system in its own right."

As Crimson users are able to log into the system and update case information in real time, decisions can be made quickly by supervisors who can view all associated information.



Ian Walker

"It's improved efficiency no end," said Mr Walker. "At any given period of time managers can go in and see what stage the investigation is at, what exactly has been done and what the outcome was."

Crimson can also create a case file and intelligence recorded within the system can be allocated a disclosure code, simplifying the process of preparing a file for court.

"This has made case preparation much easier and means that the Crown Prosecution Service can bring cases to court far more quickly," added Mr Walker. "It's made the process much more efficient and more effective."

Crimson users can also now benefit from a powerful management information statistics



WPC Software has also added link maps to Crimson which provide a visual representation of relationships between different entities including people, addresses, vehicles and other investigations. This makes it much easier for investigators to spot links between different pieces of information and make connections.

module which can assist with the analysis of investigations.

This additional functionality is able to present information through detailed graphics, identifying types of offence, locations and information relating to the officer assigned to the investigation.

This information can then be used to identify patterns or similarities in the types of offence being committed, or drill down into the use of resources on a specific case or by a department.

Along with viewing this information in various graphical formats, Crimson is able to export all information to Excel, giving the analyst the tools to carry out further investigation and data interrogation.

All modules within Crimson are built to complement the central database of key records including people, organisations, vehicles, addresses and telephone data.

Records can be linked through the investigation process, providing a simple but effective way to identify and highlight links between different sources of information.

Crimson has been created using WPC's extensive knowledge of law enforcement gained over many years developing software solutions to support UK police forces.

Crimson has also been designed to help other law enforcement organisations including illegal money lending teams to target loan sharks and speed up the process of investigating and prosecuting those who prey on the vulnerable.



Glenn Bewes

It is estimated that there are more than 300,000 households borrowing from illegal lenders. Many victims are subjected to threats and violence if they miss repayments at extortionate rates of interest.

Crimson makes it easier to manage such investigations and make connections more quickly so that teams get a clear picture of illegal money lenders, who they are lending to and the scale of their operations.

It enables investigators to be more efficient and effective in tackling loan sharks and the misery they cause.

As well as law enforcement organisations and other public sector bodies such as local authorities, a large number of commercial organisations can also benefit from using investigation management software.

Crimson is particularly suited to organisations involved in corporate security and brand protection, loss prevention, internal investigations and fraud, as well as private investigations and prosecutions.

Glenn Bewes, managing director of WPC Software, said: "We have worked closely with the GLA to provide a tailored solution that was able to support its business processes.

"Crimson is a very flexible system which can be used by any teams that require the ability to collate intelligence, allegations and develop these into investigations.

Mr Bewes added: "We are delighted to have been able to provide an effective solution that has allowed the GLA to save time, improve communication and bring unscrupulous and unlicensed gangmasters to justice more quickly."

Crimson is the latest innovation from WPC Software which is a market-leading supplier of information management solutions to public and private sector organisations.

The company's software products are designed to help organisations share information, work more efficiently and reduce bureaucracy in all operational areas.

WPC has developed software solutions for a wide range of applications, from fraud investigations and staff vetting to missing persons and stolen vehicle administration.

Its systems enable police forces and others to work collaboratively together and facilitate multi-agency problem solving with partner organisations.

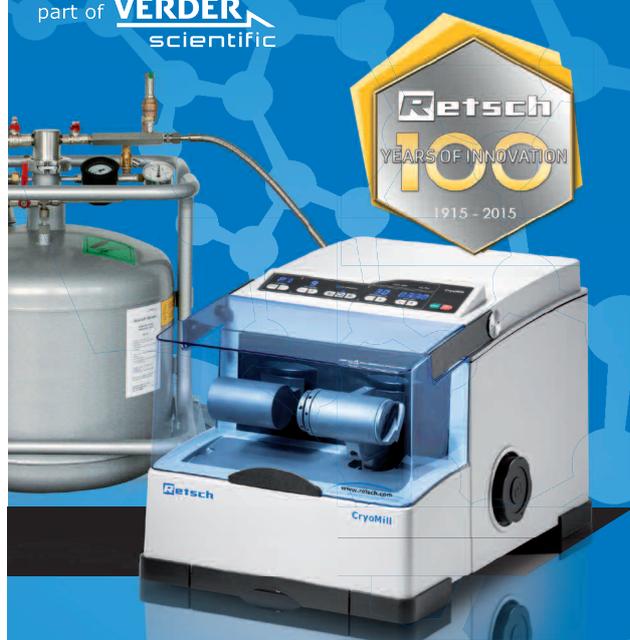
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Death Warrant

A drug-smuggling pensioner who tried to fake his own death to avoid being jailed has been brought to justice and jailed for eight years. The Investigator reports.

In a storyline that would not be out of place in a Hollywood movie, elderly drug smuggler went to great lengths to prevent being brought to book for his offences.

The 73-year-old Spanish national Jose Louis Calvo Serra, from Madrid, was initially arrested at Bristol Airport three years ago as he tried to leave the UK.

He had arrived at the same airport a few days earlier having travelled from Spain, via Casablanca, Gambia, Senegal and Brussels. The person he made the trip with, another Spaniard named Jose Stojan Sekulitis Gomez, aged 76, had been stopped by Border Force officers and found to be carrying almost four kilos of cocaine.

The drugs, if cut and sold in the UK, would have had a likely potential street value of over £550,000.

Gomez was later charged while Calvo Serra was bailed pending further enquiries

Computer and forensic evidence was identified that linked Calvo Serra to the importation, but while on bail NCA investigators received a death certificate purporting to be for Jose Louis Calvo Serra.

Thorough checks with the Spanish authorities showed that no formal record of his death existed and the certificate was a forgery. A European Arrest Warrant was issued and he was extradited after being located in Madrid in April 2015.



Jose Louis Calvo Serra

A jury at Bristol Crown Court unanimously found Calvo Serra guilty of conspiring to import cocaine. He was jailed for eight years, plus an extra four months for attempting to pervert the course of justice.

Dawn Cartwright, Operations Manager for the NCA's Border Investigation Team, said: "Calvo Serra thought he could escape justice by playing dead but our investigators were not so easily fooled and checks revealed the death certificate was a fake.

"We then worked with our Spanish colleagues to track him down and return him to the UK to face justice.

"It demonstrates our determination to disrupt and bring to book drug traffickers and the organised criminal networks involved in this illegal trade."

Gomez was sentenced to eight years in September 2012 following a trial at Bristol Crown Court.



DNA Detectives

While DNA often presents a wealth of opportunities in major crime cases, it is not a panacea and sometimes the 'DNA results' fall short of the evidential standard. However, in these cases there often remains an array of intelligence opportunities. Chris Holt looks at how to use DNA as a vital intelligence tool in major crime investigations.

Over the past ten years advancements in DNA have continued unabated as scientists develop innovative breakthroughs that can often transform the outcome of a case. While there is much emphasis placed on the forensic use of DNA that is science-led, a purely science-focussed approach can often limit the effective use of DNA within an investigation.

Former GMP detective Chris Holt has been involved in the development of best practice around the concept of 'the investigative use of DNA' for SIOs and their officers. Mr Holt

was previously seconded to the former National Crime Faculty and the NPIA Crime Operations Support where he held the portfolio of the investigative use of DNA. Within that portfolio work he has also been involved in developing the investigative tactics which sit behind the science of familial DNA searching and was a co-author of the ACPO guidance. He has also give advice in many major crime cases, presented at many conferences within the UK, at the FBI Academy and at the Interpol DNA conference and was a member of the ACPO DNA Operations Group.

Developing area

He believes that the investigative use of DNA is still a developing area that could be used more by major crime teams in their work.

"My work is around maximising the intelligence potential for the investigation when we look at the DNA that the scientists find with the need to incorporate the scientific work into wider investigative

DNA in an investigation because the database records the location where an individual was swabbed which might not necessarily be where they live or spend the majority of their time. Mr Holt comments, "When considering geographic locations as a potential filter in any search of the DNA database there are a number of issues for investigators to be aware of and which are sometimes not appreciated when the search is commissioned."

DNA 17

One of the most positive changes to the DNA database that took place last year could also help provide investigators with increased evidential opportunities.

Since 1999, the UK has used the same DNA profiling system – SGM plus which created a DNA profile consisting of a string of 20 numbers or alleles plus the sex indicator. Last year, a new system called DNA 17 was implemented that now has 32 numbers plus the sex indicator.

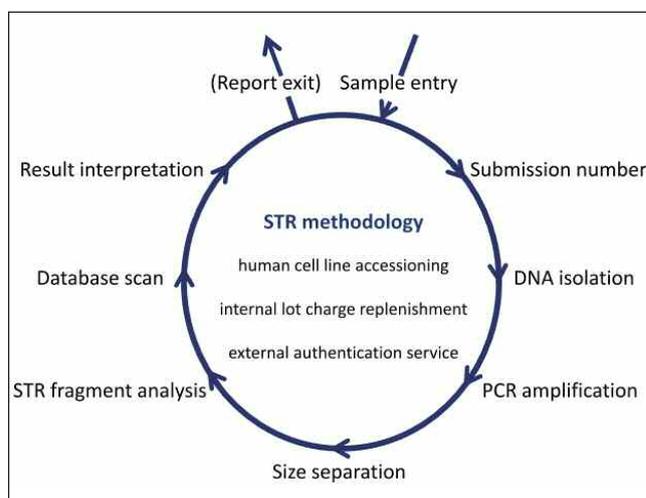
"The big advantage of this is that the new profiling kits are now more sensitive so you have the potential to get DNA results where you previously wouldn't have got a profile," explains Mr Holt.

"While there are a number of commentators who have highlighted the point that the increased sensitivity of the new kits are producing a number of mixed profiles and complex results, it is also true that where we have a clear single source, the results are improved.

This opens the door to us being able to solve more cold cases where there are usable samples that have previously not yielded results but could now be resubmitted."

Future developments

Looking to the future, Mr Holt believes that the evidence from the UK successes with familial searching has highlighted the potential for Y-STR profiling to assist investigations. This could be developed even further if there was a DNA database for Y-



Authentication of Cell Lines

STR profiles where searching against it would potentially point to a particular family group even where the offender themselves was not on the DNA database.

"This type of approach is often considered politically sensitive and brings ethical considerations into play, but if these issues are handled correctly and the legitimate opportunities for investigators are created, there is the possibility to identify many serious offenders at an early stage".

Investigative use of DNA training

Investigators can gain an in-depth look at this area by attending training courses run by Mr Holt. The course covers the investigative use of the DNA database, how to maximise witness information from a DNA harvesting perspective and a look at how to maximise investigative opportunities from partial profiles.

It also covers advice on what to do with a full DNA profile that doesn't result in a 'hit' including advice on familial searching and intelligence led mass screening as well as policy book entries relating to the investigative use of DNA and other tips such as how to get DNA from a missing person.

**This article was originally published in
The Forensic Investigator, to subscribe
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Source the latest technology at Forensics Europe Expo

Clarion Events is pleased to announce the fourth edition of Europe's leading forensics exhibition and conference, Forensics Europe Expo will return to London's Olympia on 19th and 20th April 2016.

Showcasing the latest advances in forensic technology, the next event is set to be the biggest to date with 15per cent more exhibitors than in previous years. The exhibition of over 70 exhibitors will offer a unique vantage point for both buyers and providers across the entire forensics sector. The event will also provide definitive source of education and best practice together with unparalleled access to training and networking opportunities.

Speaking at the event in 2015, Nick Mathew, Investigation Manager for the Federation Against Copyright Theft commented, "Forensics Europe Expo was a fantastic event – it ticked every box, from excellent conference information to very useful product sourcing on the exhibition floor. I'll definitely be back next year."

New developments in Forensic Sciences to

be discussed at 2016 Conference, Forensics Europe Expo is delighted to be working once again with the Chartered Society of Forensic Sciences in delivering a high-level Conference programme. This year, the conference will focus on the latest developments and techniques used on the international Forensic arena and more specifically the increasingly important area of Digital Forensics.

Complementing the conference programme will be the addition of a dedicated "Learning Zone" within the main exhibition and a series of workshop programmes lead by FEE exhibitors. Ideal for furthering professional development, the location of these features within the main exhibition hall will provide a source for best practise tools and training with exceptional networking opportunities.

Forensics Europe Expo will once again be co-



and seated events) annually across the globe. More than 12,000 companies trust us with their custom each year and over 700,000 people give their valuable time to visit our events. This success has come from identifying high-value, niche audiences in difficult-to-reach markets and then building them into market-leading products.



located two other major industry events, Security & Counter Terror Expo (SCTX) and Ambition, the EPRR Expo. Visitors to SCTX exhibition can expect to see live forensic analysis of a post IED scenario and the bringing together of three high-profile events allows for a dynamic networking environment with cross-disciplinary opportunities.

For more details on Forensics Europe Expo, please visit www.forensicseuropeexpo.com

Clarion Events organises more than 200 events (a mixture of exhibitions, conferences

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18 November 2015, Rothley Court Hotel, Leics



This day will show you the significant operational efficiencies for the processing of call, text, email, chat, cellsite and mobile phone forensic data analysis

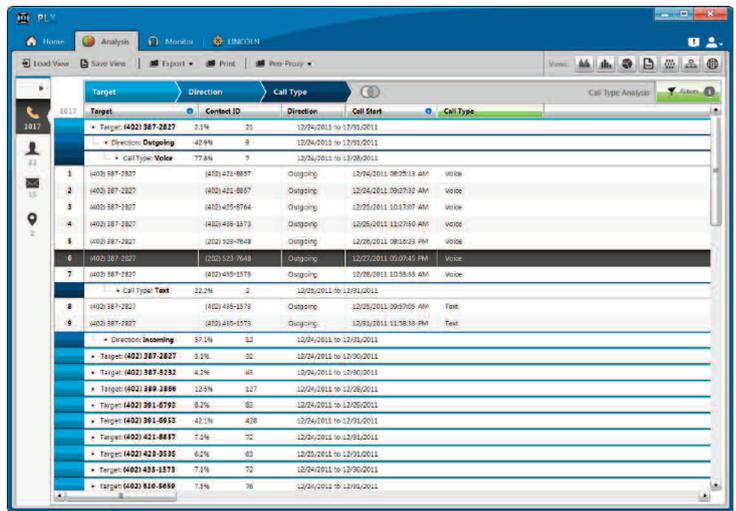
Why attend the FREE day?

The Investigator is teaming up with investigative software specialists Mans Location Services to bring you this not-to-be-missed free workshop that will showcase best practice in how to collate, process and manage the wealth of intelligence data that is now a routine part of today's major crime investigations.

Whether you are an SIO, frontline investigator or analyst working in a police force or another law enforcement or security role – this workshop will provide you with a wealth of knowledge and key learning around how to manage vital data including calls, texts, emails, social media, mobile forensics data and cell site analysis all in one system.

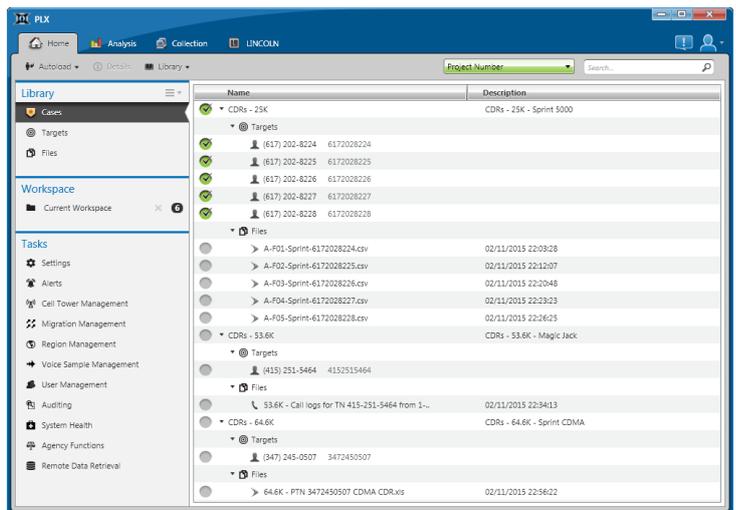
Experts from Mans Location Services will be showcasing this cutting edge investigative software system called PenLink and outlining how it can transform the operational efficiency of an investigation.

PenLink provides state-of-the-art software and systems for the collection, storage, and analysis of telephonic and IP-based communications. It can process large quantities of data for analysis in both routine cases as well as more complex cases of international terrorism and drugs.



The screenshot displays the PLX software interface with a 'Call Type' analysis window. It shows a list of call records with columns for Target, Direction, Control ID, Direction, Call Start, and Call Type. The data is organized into sections for 'Outgoing' and 'Incoming' calls, with sub-sections for 'Voice' and 'Text'.

Target	Direction	Control ID	Direction	Call Start	Call Type
Target: (402) 387-2827	0.3%	21		12/04/2011 to 12/05/2011	
Direction: Outgoing	42.9%	8		12/04/2011 to 12/05/2011	
Call Type: Voice	77.6%	7		12/04/2011 to 12/05/2011	
(402) 387-2827	(402) 421-8887		Outgoing	12/04/2011 08:25:13 AM	Voice
(402) 387-2827	(402) 421-8887		Outgoing	12/04/2011 09:27:32 AM	Voice
(402) 387-2827	(402) 425-8764		Outgoing	12/05/2011 10:17:07 AM	Voice
(402) 387-2827	(402) 419-1873		Outgoing	12/05/2011 11:27:50 AM	Voice
(402) 387-2827	(202) 528-7648		Outgoing	12/05/2011 08:10:28 PM	Voice
(402) 387-2827	(202) 523-7648		Outgoing	12/22/2011 02:07:43 PM	Voice
(402) 387-2827	(402) 405-1578		Outgoing	12/05/2011 10:58:38 AM	Voice
Call Type: Text	22.2%	2		12/05/2011 to 12/06/2011	
(402) 387-2827	(402) 419-1873		Outgoing	12/05/2011 00:57:09 AM	Text
(402) 387-2827	(402) 405-1578		Outgoing	12/06/2011 11:58:39 PM	Text
Direction: Incoming	87.5%	32		12/04/2011 to 12/05/2011	
Target: (402) 387-2827	0.3%	32		12/04/2011 to 12/06/2011	
Target: (402) 387-5132	4.2%	48		12/04/2011 to 12/06/2011	
Target: (402) 389-1896	12.0%	127		12/04/2011 to 12/06/2011	
Target: (402) 391-6793	8.2%	85		12/04/2011 to 12/05/2011	
Target: (402) 391-6953	42.1%	458		12/04/2011 to 12/05/2011	
Target: (402) 421-8887	7.3%	72		12/04/2011 to 12/05/2011	
Target: (402) 423-3035	6.2%	65		12/05/2011 to 12/05/2011	
Target: (402) 435-1873	7.1%	72		12/04/2011 to 12/05/2011	
Target: (402) 610-6660	7.8%	78		12/04/2011 to 12/05/2011	



The screenshot shows the PLX software interface with a 'Library' view. It displays a list of cases with columns for Name and Description. The cases are organized into folders for 'Targets', 'Files', and 'CDRs'.

Name	Description
CDRs - 25K	CDRs - 25K - Sprint 5000
Targets	
(617) 202-8224	6172028224
(617) 202-8225	6172028225
(617) 202-8226	6172028226
(617) 202-8227	6172028227
(617) 202-8228	6172028228
Files	
A-F01-Sprint-6172028224.csv	02/11/2015 22:09:28
A-F02-Sprint-6172028225.csv	02/11/2015 22:11:07
A-F03-Sprint-6172028226.csv	02/11/2015 22:20:48
A-F04-Sprint-6172028227.csv	02/11/2015 22:28:23
A-F05-Sprint-6172028228.csv	02/11/2015 22:26:15
CDRs - 53.6K	CDRs - 53.6K - Magic Jack
Targets	
(415) 251-5464	4152515464
Files	
53.6K - Call logs for TN 415-251-5464 from 1-	02/11/2015 22:34:13
CDRs - 64.6K	CDRs - 64.6K - Sprint CDMA
Targets	
(347) 245-0507	3472450507
Files	
64.6K - PTN 3472450507 CDMA CDR.xls	02/11/2015 22:56:02



PLX
PLX is the latest suite of Pen-Link software products. From stand-alone installations to enterprise scale networks, historical communication records to real-time, live interception, PLX is the one and only platform you need to conduct all of your communications collection and analysis

The day will feature presentations on how the software has already been successfully used in investigations in the US and across the world. It will also include a number of practical demonstrations to highlight how it can transform the way you collate and process intelligence data in an investigation.

If you are a police force or other agency who would be interested in trialling the system then you are invited to come along to the day, meet the team and find out more about how the software could benefit your organisation.

Information:

- The demonstration day runs from 10.30am till 2.30pm (Registration starts at 10am)
- Tea and coffee will be served on your arrival (breakfast is available to purchase at the hotel)
- A buffet lunch is included

How to book delegate places

Email the delegate name(s) and email address(s) to: info@the-investigator.co.uk
The day is open to government agencies, law enforcement agencies, the legal profession, the justice system, the financial sector and specialist mobile phone forensic providers.

Venue address:

Rothley Court Hotel, Westfield Lane, Rothley, Leicester LE7 7LG

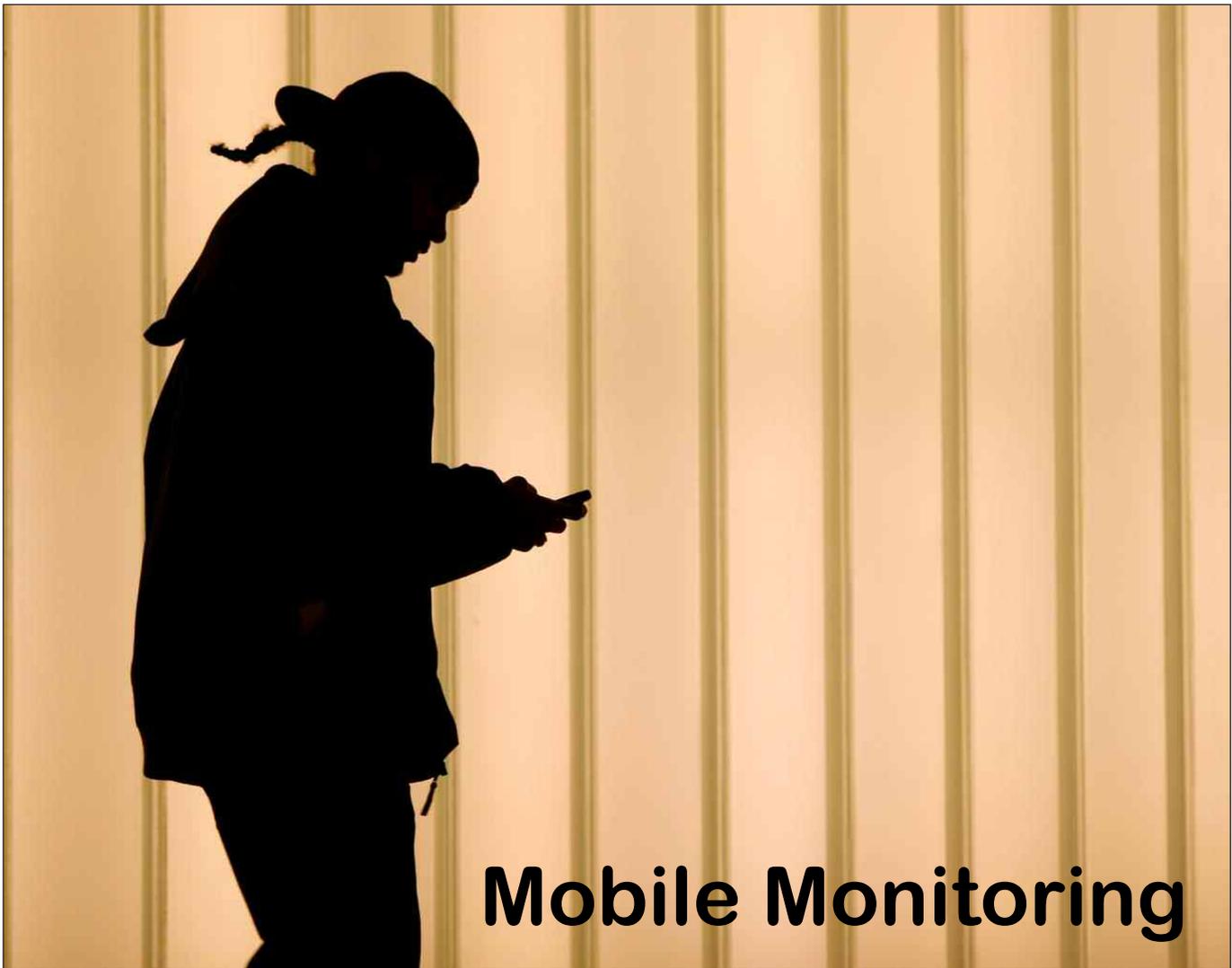
Accommodation: Bed & breakfast at Rothley Court, please contact reservations on 0116 237 4141. Always check www.laterooms.com or www.bookings.com first as there maybe cheaper accommodation available.

Contact details:

The Investigator, Tel: 0844 660 8707
E: info@the-investigator.co.uk



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Mobile Monitoring

A digital abuse expert has raised concerns over the fact mobile phone are now becoming powerful electronic tags for victims of domestic abuse. The Investigator reports.

Domestic abuse has gone digital. Mobiles are a perfect tool for abusers to use today. It makes the task of monitoring, threatening, intimidating and harassing a victim so much easier, and safer for the abuser than having to do it in person, says Jennifer Perry, CEO of the Digital-Trust.

Victims keep their mobiles close to hand, they use them for all their social media, texts and emails. It is a wealth of information for an abusive partner. It can show who their partner talks to, how long, how often. It tracks where they are right now and where they've been. The right app allows you to remotely read text and listen in on conversations.

"This allows the victim's mobile to become a very powerful electronic tag with their abuser as their guard. This intrusive monitoring stops victims from having any privacy, isolating them and can prevent them from getting help" says Ms Perry

Surveillance behaviour starts when the victim is still living at home. Using a mobile an abuser can: set-up the phone so they have control of the phone account/master password as well as force the victim to provide access to their phone by sharing password or pin.

They can also read their texts or social media like Whats App, see who is in their contact lists, look at the location information that shows where they've been and also put spyware or tracking app on the phone.

The Digital-Trust has written easy to use step by step guides on how to secure a

smartphones. There is a guide for the iPhone, Androids and Windows mobiles.
<http://www.digital-trust.org/victims-advice/#/mobile-advice/>

It isn't just mobiles - technology such as spy cameras, listening devices and car trackers are becoming much more common in abuse cases. Digital abuse is a challenge for anyone working with victims and the problem is rapidly escalating. In a survey of domestic violence victims by Women's Aid 75% reported concerns that the police did not know how best to respond to online abuse or harassment.



Ms Perry has been working with criminal justice and DV professionals since 2009 on digital risks and protection. She founded, Digital-Trust to combat the growing problems of online abuse. It is the only UK organisation that develops digital advice for specifically victims of domestic abuse, harassment, stalking, and trolling. She has designed new training Digital Abuse within Domestic Violence. The training helps non-technical professionals to understand the technology, the risks and how to help victims. The training is supported by specialist advice on www.Digital-Trust.org.

"It was very important to me that we delivered training to police and those working with victims of domestic abuse across the UK and not just in London." says Perry. The training is also part of the National Cyber Awareness Programme which is accredited by the University of Gloucestershire.

In a Women's Aid online survey of survivors of domestic abuse in 2014:

- 45 per cent reported experiencing some

form of abuse online during their relationship, including through social networking sites or over email.

- 48 per cent reported experiencing harassment or abuse online from their ex-partner once they'd left the relationship. 38% reported online stalking once they'd left the relationship.
- 75 per cent reported concerns that the police did not know how best to respond to online abuse or harassment. This includes 12% who had reported abuse to the police and had not been helped.



Jennifer Perry

Case study

A young mother, in the East Midlands, came home from meeting a friend for coffee. Her abusive husband played her a conversation she had while she was out. It really frightened her because she had no idea how he was able to tape her. Did he have someone following her? Did the coffee shop owner do it?

The answer was her husband had put mobile spyware on her phone, this allowed him to turn on the phone's microphone and listen to her conversations. She had no idea how long or which conversations he had listened to. Two days before this incident, she had a meeting with a domestic abuse worker on how and when she would leave her abusive husband. Did he know?

Fortunately, her caseworker had training and was able to advise her what had happened and what to do. She moved up her exit plans and dumped the phone so he couldn't track her to the new location.

For more information go to:
www.Digital-Trust.org.

This article was originally published in The Cyber Investigator, to subscribe visit www.the-investigator.co.uk



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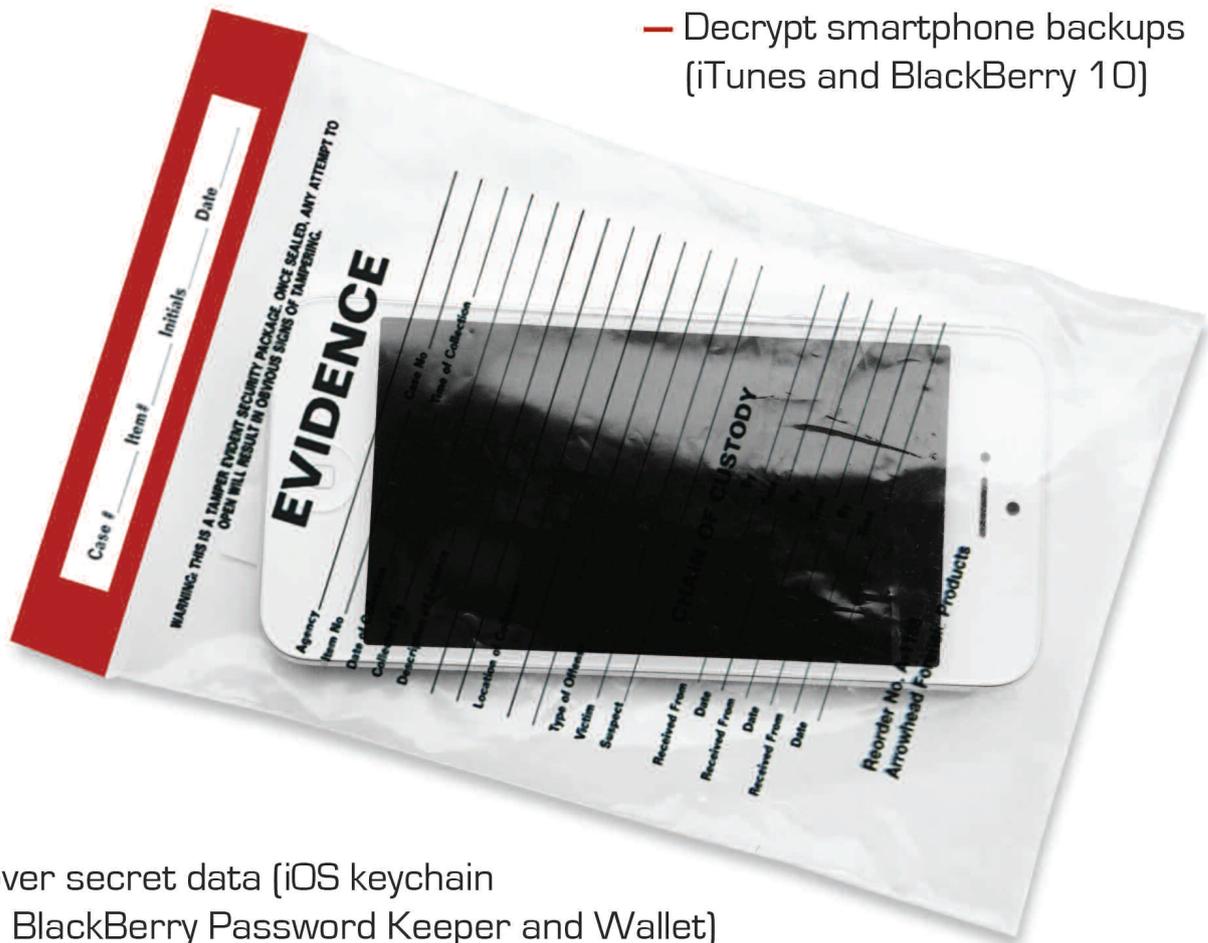
UCD Centre for Cybersecurity & Cybercrime Investigation

University College Dublin, Belfield, Dublin 4, Ireland

Web: www.ucd.ie/cci **Tel:** +353 (1) 716 2486/2947 **e-mail:** cci.info@ucd.ie

Get Advanced Forensic Access to Mobile Devices

- Recover device passcodes for iOS and BlackBerry devices
- Decrypt smartphone backups (iTunes and BlackBerry 10)



- Recover secret data (iOS keychain data, BlackBerry Password Keeper and Wallet)
- Download data from the Cloud (iPhone and Windows Phone 8 data)

ElcomSoft Co. Ltd. is a global industry-acknowledged expert in computer and mobile forensics providing tools, training, and consulting services to law enforcement, forensics, financial and intelligence agencies. ElcomSoft pioneered numerous cryptography techniques to gain access to encrypted and password-protected computer and mobile data. ElcomSoft products have become de-facto industry-standard, are studied in training sessions, covered in textbooks, and are part of the Certified Ethical hacker initiative.

Contact

US, toll-free: +1 866 448-2703
United Kingdom: +44 870 831-2983
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POLICE LINE DO NOT CROSS

Drilling down data

A state-of-the-art software system is helping investigators collect, process and analyse the raft of data that is now a routine part of criminal investigations'. The Investigator reports.

Collecting, processing and analysing Big Data are crucial components of today's investigations. Phone calls, text messages, emails, and social media play an increasingly critical role in our personal and professional communications.

Criminals are no less savvy in their use of these technologies and are becoming increasingly adept in employing more sophisticated communications to run their illegal operations.

Examine

Many crimes can be tied to multiple communication sources making it imperative for investigators and analysts to quickly examine and understand the information at hand.

Smaller work forces, combined with ever

increasing and broader data sets, make it difficult for Law Enforcement Agencies (LEA's) to fully utilize this data in their investigations.

Pen-Link provides Law Enforcement Investigators and Analysts the ability to process and analyse Call Detail Records (CDR's), Social Media transactions, and historical IP Sessions obtained from Telephone, Social Network, and IP Service Providers.

Patterns

A powerful analytical suite enables analysts to uncover hidden patterns, link suspects within and between cases, determine patterns of life, identify criminal communication networks, and ascertain suspect movements through phone and IP geo-locations.

Pen-Link's powerful database combined with automated processes, integrated reporting, quick filters, and built-in graphics can save Analysts hundreds of hours thereby quickly multiplying the work force of any Constabulary, Police Force, or Agency.

The value of Pen-Link technology goes beyond that of Investigator's and Analysts as it also provides the tool for prosecutors to logically and efficiently present evidence required to judicially prosecute criminals.

strategic alliance marks the first time Pen-Link is partnering with a local firm to provide focused development and support in order to meet the needs and challenges specific to UK case work.



Deployed

Pen-Link's products are used in a multitude of investigations including: narcotics investigations, Anti-Terrorism cases, Homicides, and Crimes against Children to name a few.

Pen-Link intentionally withholds specific information about certain types of casework and technology from the public due to the sensitivity of these investigations.

Challenges

Having successfully served thousands of Law Enforcement Agencies throughout North America and Latin America, Pen-Link Ltd. has partnered with MLS Ltd. to bring its Communications Intercept and Analysis Software to the United Kingdom. This

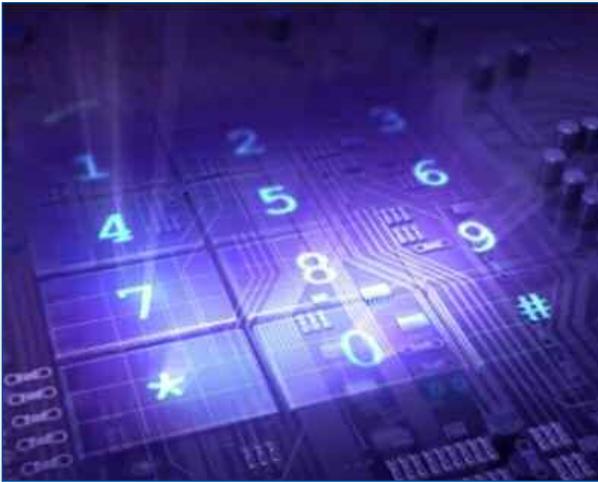
However If you are in public safety and wish to learn more about how Pen-Link technology can be deployed and increase the reach of your investigations, please contact Mark Turvey of MLS Ltd at +44 (0) 1249 816 181 or mark@mansls.co.uk

About Pen-Link Ltd.

In business for over 25 years, Pen-Link, Ltd provides Law Enforcement and Intelligence Agencies with state-of-the-art software and systems for the collection, storage, and analysis of telephonic and IP-based communications. Pen-Link's software and systems are widely recognized as industry standards, with thousands of licensed Law Enforcement and Intelligence users in federal, state, and local agencies worldwide.

About MLS Ltd.

MANS Location Services are Suppliers of Specialist Test Instrumentation and Equipment used by Security, Law Enforcement Agencies, and Telecommunications Companies. Based in Wiltshire, UK, MLS supplies and supports customers throughout the UK and Europe. MLS is known for its after sales Service and Support and their ability to solve problems in an innovative manner.



MOBILE PHONE & TELECOMMUNICATIONS BASED FORENSICS

- Mobile Phone Forensics
- Apple iPhone and iPod
- Android Forensics
- Cell-Site Analysis

COMPUTER & INTERNET BASED FORENSICS

- Computer Forensics
- Internet Forensics
- Penetration Testing
- Digital Forensics
- Intrusion Detection
- Social Networking Analysis
- Identity Theft
- Network Forensics

MEDIA BASED FORENSICS

- Audio and Video
- Gaming Console Forensics
- Personal Electronic Devices
- Digital Camera Forensics
- Memory Card Forensics
- Tracking Device Forensics
- MP3 Forensics
- Satellite Forensics



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