

Forensic Technology  
& Discovery Services

**Forensic analysis  
with leading  
technology: the  
intelligent connection**

Fraud Investigation & Dispute Services



Building a better  
working world

# Forensic Technology & Discovery Services

EY's Forensic Technology & Discovery Services (FTDS) practice provides a wide range of eDiscovery, data analytics and cyber breach investigation and response management capabilities, on a global basis. Our multidisciplinary teams can deploy advanced technologies and professional services anywhere in the world, responding with speed and precision to complex regulatory, fact-finding and cyber security risks.

## Consistent, end-to-end and cost-effective eDiscovery

Business is increasingly reliant on electronically stored information (ESI), the management of which presents significant - and unique - business challenges. Many of these challenges are enhanced by specific industry or geographic risks. The complexity of managing these risks is exacerbated by the rising tide of regulations, big data and globalization. We are capable of deploying our full breadth of services to assist you, or provide targeted services to augment your own in-house resources.

Our ability to offer seamless integration, from one stage of the eDiscovery life cycle to the next, reduces the risks and costs associated with managing multiple service providers.

## Realize the value of your data in fraud detection and investigation with forensic data analytics

Following the advances of big data technologies, forensic data analytics (FDA) is now an integral requirement to support detection, response and monitoring exercises.

FDA can employ a wide range of analytical techniques, including rules based, text mining, network analysis and predictive modeling, depending on the issue being addressed.

Both structured and unstructured datasets are used to identify areas of potential fraud, corruption or other errant behavior; whether it is in the form of potentially improper transactions, noncompliance with laws, regulatory and accounting rules or company policies, or other anomalous activities or trends.

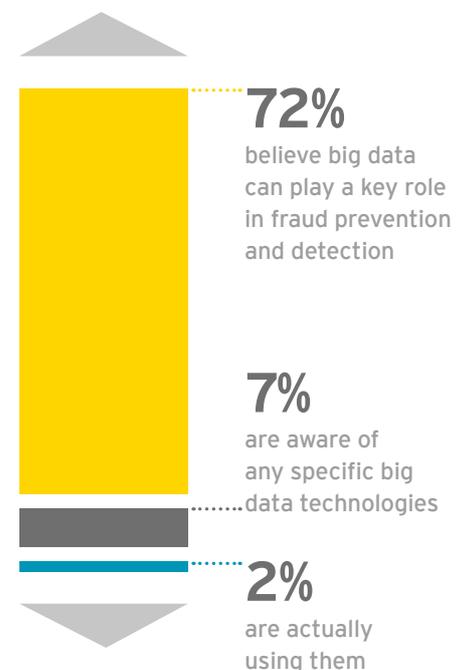
FDA can be deployed retrospectively in the context of an investigation, audit or redress program. In addition, it can be deployed on an ongoing basis in the form of compliance and surveillance tools. FDA enables fact-based evidence that can drive actionable business decisions and focuses investigative efforts where it matters most.

## Timely and effective response to cyber breach

From forensic investigation to litigation, to working with regulators, law enforcement, and national security and intelligence agencies, our team has the scale, experience and credibility you need to help you respond to and recover from, a cyber breach.

Our team includes information security professionals, investigators, digital forensics specialists, eDiscovery professionals, forensic accountants, as well as former ethics and compliance officers, former government auditors, and former prosecutors and regulators. We have more than 60 forensic technology centers worldwide, and we can provide resource-based services through our network in all countries where EY has offices.

## Big data has big potential\*



## Cyber attack detection\*\*



\*EY's Global Forensic Data Analytics Survey 2014  
Big risks require big data thinking

\*\*EY's Global Information Security Survey 2014

## Connecting leading technology and forensic analysis to support your litigation efforts, and anti-fraud and compliance programs

### You need to...

### We will help you by...

#### **Detect and investigate noncompliance and fraud**

- ▶ Strengthening your anti-fraud operations by using our FDA capability to analyze large and complex sets of structured and unstructured data from multiple sources
- ▶ Detecting potentially fraudulent and other corrupt conduct by analyzing transactional data and the behavior patterns of employees and suppliers
- ▶ Identifying potential weaknesses in your fraud prevention strategy through our deep understanding of your network systems, business processes and sector-specific risks

#### **Respond to requests by regulators and other authorities for disclosure of ESI**

- ▶ Developing quality and risk management procedures for the entire eDiscovery process, including planning, scheduling, collection, processing, review support and production
- ▶ Using our experience of working with regulators around the globe to help you supply the right data in the right format, while preserving its integrity
- ▶ Sending our qualified teams to your offices, data centers, warehouses or factories, wherever you operate in the world, to help your teams manage the data collection and review process

#### **Respond to cyber breach in a timely way**

- ▶ Developing an effective Cyber Breach Response Management (CBRM) Plan
- ▶ Mobilizing our qualified teams of cyber breach investigators to determine how and when the compromise occurred, provide factual findings on who may have been responsible and what the impact was to the organization
- ▶ Identifying and addressing vulnerabilities in the IT environment, while sufficiently hardening the environment to complicate the attacker's efforts to get back in
- ▶ Preparing robust evidence for use in any criminal proceedings that may follow

#### **Comply with national and international data protection legislation**

- ▶ Working with your legal advisors to establish a responsive data protection program with effective governance policies
- ▶ Meeting your legal and ethical obligations to help you prevent data abuse, and maintaining data integrity throughout the information management life cycle

# Intelligent thinking applied

## eDiscovery

We were engaged in a dispute that resulted in one of the most complex eDiscovery exercises ever conducted in the UK. The matter involved 250 custodians from more than 110 organizations. It required deep sector knowledge, technical innovation and multi-party teamwork by us to help the client establish a single point of control over a diverse data landscape, reducing the risks and costs associated with a fragmented approach to this type of matter.

Our team worked closely with the client, its lawyers and appointed experts to devise acceptable procedures for collecting and processing protectively marked material and other personal and sensitive data.

We also developed tools to record complex custodian identification, collection and processing metrics. We processed over 50 million documents and emails to support the review. In addition, we developed privacy, security and confidentiality protocols tailored to individual institutional requirements. Processing, controlling and providing meaningful management information over a large dataset of this type enabled the client and its legal team to monitor the progress and handle the emergence of new risks.

## Forensic data analytics

We have been engaged by a major international bank to help it develop a suite of indicators of a number of key foreign exchange conduct risks.

Our team has established a statistical framework to develop and test these indicators against historical trading data, to help prove their effectiveness at identifying these risks.

Work is ongoing to develop a managed service that supports the adoption of these indicators in the business, as part of an evidence-based surveillance program. We have already consolidated all relevant trading data into a single fact-based and evidence view, which contains trading activity, client orders and market prices; with electronic communications (email and chat) and voice to be integrated in subsequent phases. We have also developed a range of statistical analyses and visualization tools to identify behavior patterns indicating inappropriate trader activities.

## Cyber breach

A global organization suffered a major cyber breach when an external organization allegedly used a spear-phishing attack to gain access to its network, stealing and destroying large amounts of data. The attackers forced the company to shut down most of its networks around the world and released sensitive and confidential business information, as well as personal employee data.

By providing a suite of CBRM services, our team worked with the first responders to secure and recover electronic evidence on a global basis. They also built a military-grade mobile center, within six days, to handle on-site processing, hosting and advanced data recovery.

The team developed an optimal end-to-end eDiscovery process to support the company and its legal counsel, and performed malware scanning on several thousand assets, successfully recovering all malware-affected systems.

# Global expertise, local knowledge, relevant skills

The EY Fraud Investigation & Dispute Services practice brings you the people, tools and insights you need to protect your business from financial and reputational risks.

## Multidisciplinary professionals

- ▶ Over 3,800 professionals worldwide
- ▶ Forensic accountants, technologists, former law enforcement and intelligence agency professionals
- ▶ Working in 70 countries
- ▶ Across 27 industries

Understanding how regulations, laws and compliance issues vary by country and region

## Cross-sector specialists - including:

- ▶ Financial Services
- ▶ Life Sciences
- ▶ Extractive Industries
- ▶ Government & Public Sector
- ▶ Construction & Infrastructure

Market-leading breadth and depth of insight into complex, international business processes

## Thought leadership



### Global Forensic Data Analytics Survey

Offering powerful insights into how leading organizations are leveraging forensic data analytics to mine big data in their efforts to manage fraud, bribery and corruption risk



### Breaking through the waves - an adaptive eDiscovery approach

How seamless integration from one stage of the eDiscovery life cycle to the next reduces the risks and costs associated with managing multiple service providers



### Cyber breach response management. Breaches do happen. Are you ready?

Helping you understand the intricacies and challenges in responding effectively to a cyber breach

## Talk to us

Find out how we can help you protect the financial and reputational value of your business. We will react quickly and efficiently to prevent, detect and resolve any threats you face, however complex.

### Jim McCurry

EMEIA and Northern Europe leader  
+44 20 795 15386  
jmccurry@uk.ey.com

### Sharon Van Rooyen

Africa  
+27 11 772 3150  
sharon.vanrooyen@za.ey.com

### Stefan Heissner

Central and Eastern Europe  
+49 211 9352 11397  
stefan.heissner@de.ey.com

### Arpinder Singh

India  
+91 22 6192 0160  
arpinder.singh@in.ey.com

### Michael Adlem

Middle East  
+971 4701 0524  
michael.adlem@ae.ey.com

### Ricardo Noreña

Western Europe  
+34 91 572 5097  
ricardo.norenaherrera@es.ey.com

## FTDS contacts

### Paul Walker

EMEIA FTDS Leader  
+44 20 7951 6935  
paul.walker@uk.ey.com

### David Remnitz

Global FTDS Leader  
+1 212 773 1311  
david.remnitz@ey.com

# EY | Assurance | Tax | Transactions | Advisory

## About EY

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## About EY's Fraud Investigation & Dispute Services

Dealing with complex issues of fraud, regulatory compliance and business disputes can detract from efforts to succeed. Better management of fraud risk and compliance exposure is a critical business priority – no matter the size or industry sector. With over 4,500 fraud investigation and dispute professionals around the world, we will assemble the right multidisciplinary and culturally aligned team to work with you and your legal advisors. We work to give you the benefit of our broad sector experience, our deep subject matter knowledge and the latest insights from our work worldwide.

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EYG no. AU3596  
ED None.

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