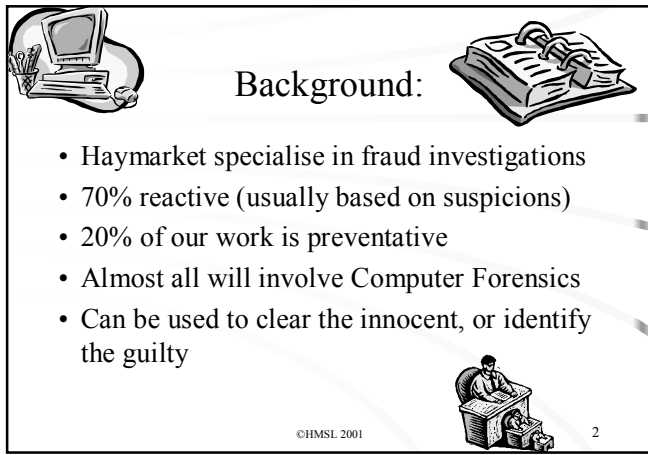


Fraud risks & new technology

ISACA – 13 December 2001


Ian Henderson FCA
Haymarket Management Services Ltd

1



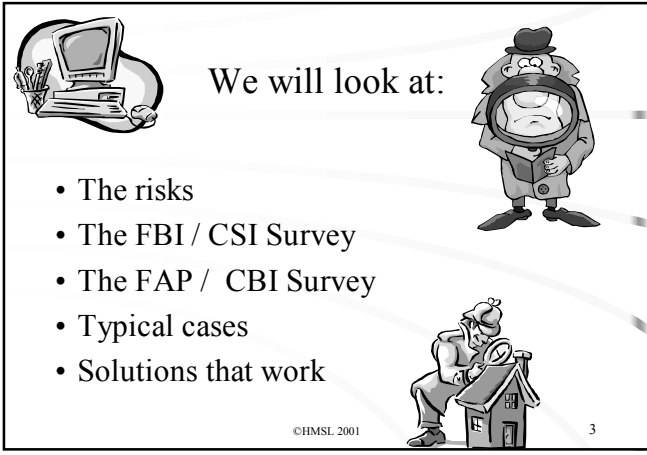
Background:

- Haymarket specialise in fraud investigations
- 70% reactive (usually based on suspicions)
- 20% of our work is preventative
- Almost all will involve Computer Forensics
- Can be used to clear the innocent, or identify the guilty




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2



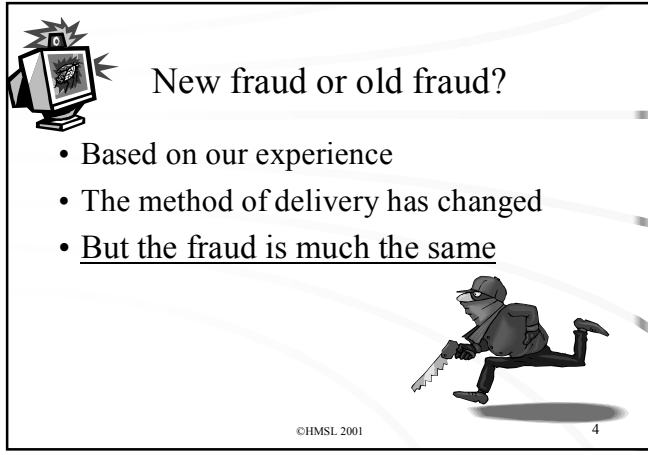
We will look at:

- The risks
- The FBI / CSI Survey
- The FAP / CBI Survey
- Typical cases
- Solutions that work




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3



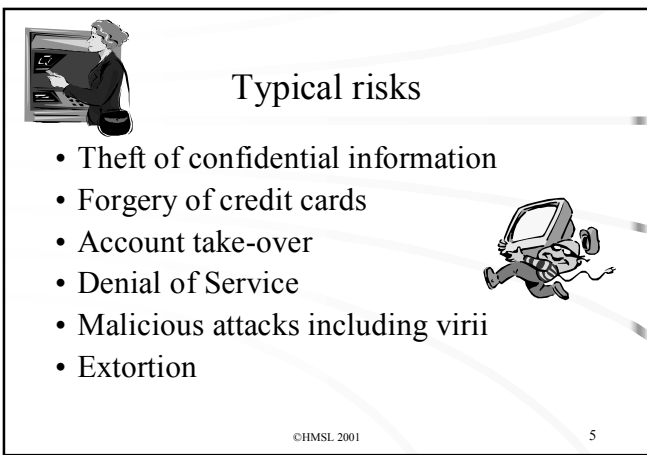
New fraud or old fraud?

- Based on our experience
- The method of delivery has changed
- But the fraud is much the same




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4



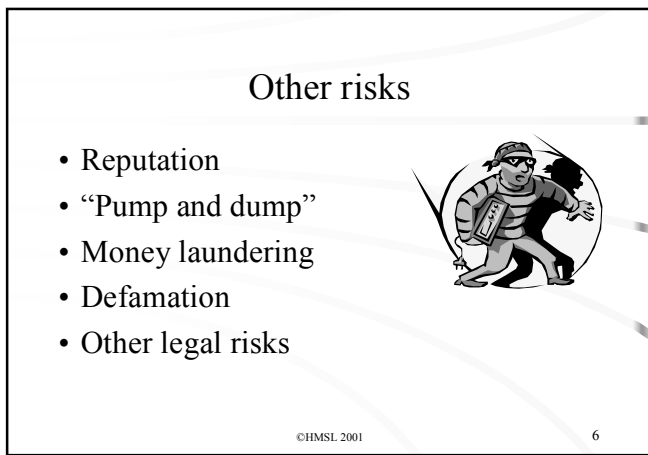
Typical risks

- Theft of confidential information
- Forgery of credit cards
- Account take-over
- Denial of Service
- Malicious attacks including virii
- Extortion




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Other risks

- Reputation
- “Pump and dump”
- Money laundering
- Defamation
- Other legal risks



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COMPUTER SECURITY ISSUES & TRENDS

VOL. VII, NO. 1 SPRING 2001

2001 CSI/FBI Computer Crime and Security Survey

www.gocsi.com

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CSI / FBI Survey March 2001

- 85% of 538 large companies reported security breaches
- 60% had INTERNAL attacks
- Most serious threat – THEFT of confidential information
- 70% of attacks via the WWW



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CSI / FBI survey cont.

- 47% do e-commerce
- 23% reported unauthorised access
- 58% had 10 or more incidents
- 78% were subject to Denial of Service
- 13% lost confidential data
- 8% suffered financial fraud



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The Brand Jap Panel

CBI
THE VOICE OF BUSINESS

Cybercrime Survey 2001

Making the information superhighway safe for business

Published September 2001
price £100

©HMSL 2001

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FAP / CBI 2001 Survey Main conclusions

- Business growth limited by Cybercrime concerns
- Main threat is from hackers and virii
- Reputational loss is the main concern
- (Based on 148 responses from CBI members)



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Cybercrime defined as:

- Threats to e-business (internet) and internal networks
- Includes fraud, hacking, virii,
- theft of confidential information or IP



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Perpetrators of Cybercrime (FAP/CBI 2001 Survey)

- 45% Hackers
- 13% Former employees
- 13% Organised crime
- 11% Employees
- 8 % Customers
- 6% Competitors
- 4% Protest Groups / Terrorists



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Confidence in e-business retained (FAP/CBI 2001 Survey)

- 2/3 of organisations experienced a serious incident in the last 12 months
- Cybercrime is expected to increase
- Benefits of e-business outweigh the risks
- B2C more risky than B2B



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The main threats - incidents (FAP/CBI 2001 Survey)

- Virii (44%)
- Hacking (16%)
- Adverse comments on WWW (10%)
- IP Infringement (9%)
- Unauthorised access to data (8%)



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The main threats - incidents (FAP/CBI 2001 Survey)

- “Spoofed” website (6%)
- Credit Card Fraud (4%)
- Legal liability issues (2%)
- DOS Attack (2%)



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How was the incident discovered? (FAP/CBI 2001 Survey)

- 43% Internal controls
- 24% Outside information
- 14% Internal whistle blower
- 7% Internal Audit
- 7% Accident / Chance
- 4% Management review
- 1% External audit



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The not so good news

- Priority for most companies is operational systems - as quickly as possible
- Not enough resource (or understanding) allocated to management of fraud risk
- “we’ll fix it if we have a problem” attitude - usually too late
- Fraud will often involve collusion

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The reasonably good news

- Encryption usually works and is not a factor in most frauds
- Good hardware and software products are available
- If you want to become a “hard target” – you can



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What the research shows

- 70% of systems don't have the latest security patches
- 90% don't use full audit logging
- 60% don't have contingency plans
- 70% do not have tested “fraud audit trails”
- Many “certified” sites don't meet these standards



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It's all about risk management

- Eliminate risk completely – and you won't do any business!
- What level of risk, or loss is acceptable?
- Have we a “shrinkage” tolerant approach?
- If so, concentrate on managing the catastrophic risks and **MONITOR** the rest

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But what are the facts?

- Who do you believe?
- Is e-commerce fraud less than traditional retail fraud?
- Is it as high as 20% of all transactions?



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Financial loss as a % of e-business (FAP/CBI 2001 Survey)

- 69% said less than 1%
- 3% said 1% to 3%
- 6% said 4% to 6%
- 2% said 7% to 10%
- 2% said 11% to 20%
- 18% didn't know!



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Our experience indicates:

- The risk is real and manageable
- No room for complacency
- Aim to become a hard target



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e-commerce has made it easier

- Pressure on market share
- New technology
- Lack of effective anti-fraud measures
- Is it error or is it fraud?
- Identity theft is a real and increasing problem



How we see it

- Low level Credit Card fraud will continue and probably increase
- Action must be taken to minimise this
- The big risks, however, are from cyber-terrorism, organised crime and theft of confidential information



Cyber-terrorism

- May involve extortion or ransom demands
- Will probably involve organised crime
- Will probably involve insiders
- Theft of information a likely target



Methods of attack

- External probing
- Denial of Service attacks
- DNS hacking
- Viruses and trojans
- * Infiltration of sniffer devices *



Today's hacking groups

- Well organised with a business focus
- Probably linked to organised crime
- Extremely sophisticated
- Will use encryption and avoid standard audit log detection
- Will probably try infiltration



Typical targets

- Banks and financial institutions
- Anyone in e-commerce
- Anyone with information that can be sold



What can you do about it?

- Know the threat
- Screen employees
- Detect possible problems and fix them!
- Use effective audit log software
- Have an action plan ready
- Test for vulnerabilities



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Beware of the marketing department

- May set targets for new accounts each day
- Will see security as restricting business
- Little appreciation of risk
- Possibly short term objectives
- Look at full cost of charge-back agreements



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Criminals have responded

- Traditional bank robberies don't happen any more
- Internet chat rooms / newsgroups share information
- Technology makes it easy
- Legal framework often weak



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This doesn't happen any more



BUT THIS DOES

Maxus MAX Max credit cards database

Hello, my name is Maxus. I would like to present you a credit cards detape. If you press the button you will get a real credit card directly from the biggest online shop database. No kidding.

Then, still no reply from the shop? I can't wait any more! Use this fucking cards guys.

Click here for a real credit card!

The while: listen to DJ Maxus music, click HERE.

Do you wanna be invisible? Click HERE.

OFFICIAL NEWS

Magnetic Strip Readers Card Range3 - TheWorld's Smallest Equipment

File Edit View Favorites Tools Help

Address http://www.tyner.com/eng/eng.htm

@Tyner

The technology

Magnetic strip readers

These units all read both HI and LOW coercivity cards

Good for about 500,000 passes

DECODED

Tracks 1&2, keyboard wedge, built-in decoder, AT&T or PS2, compatible with EUCRETEK

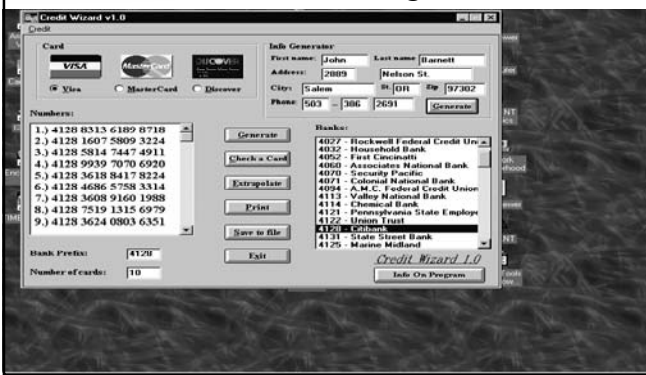
Our price is just \$79 each

Tracks 1,2&3, keyboard wedge, built-in decoder, AT&T or PS2 compatible, Also reads DMV cards

Our price is just \$99 each

Some of our vendors

Credit card number generator



US \$20,000 ransom claimed



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Other reported incidents

- VISA £10 million ransom demand
- UK Bank £10 million extortion
- US Bank lost US \$ 50 million in EFT fraud



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UK becomes the capital of credit scams

May 2001

THE United Kingdom has won an unenviable reputation for being one of the world's plastic card fraud capitals because it plays host to a staggering number of criminals eagerly plying their trade.

Losses of almost £300m were racked up by the UK's banking and retail industries last year – a 55% increase on the 1999 total of £188.4m – and expert opinion predicts this figure will continue to soar unless action is taken.

The largest individual rises were found to be in counterfeit card production, which was up a staggering 104% to £162.8m, and card-not-present frauds, such as mail order or telephone purchases where the retailer does not see the plastic, which

Most of these frauds take place in the United States, which accounts for 22% of such losses, followed by Spain with 16% and France just behind on 15%. The reasons for the surge in foreign fraud, claims Apocis, is a combination of UK fraud prevention methods and the fact that offenders are moving more quickly and easily between countries.

Almost 12% of the world's total card crime takes place in Britain, according to statistics compiled by MasterCard on its branded products, while losses for the first three months of the year are expected to exceed \$25m. A more clearly defined picture, however, is expected to emerge as outstanding figures are fed into the data over the next couple of months.

40

Tuesday, October 30, 2001 **METRO**

Barclays 'faced £25m blackmail'

A FORMER Barclays Bank employee threatened to compromise the security of millions of credit and debit cards in a £25million blackmail bid, the Old Bailey heard yesterday.

Graham Browne, 56, headed a security encryption team at one of the bank's computer centres.

The job gave him access to the credit card numbers of all the bank's customers and the encryption codes used on the cards' magnetic strips.

If they became public, the bank's entire security system would have been compromised – forcing it to spend millions of pounds to change

BY DAVID FICKLING

its customers' details. Browne was disillusioned with his job and what he saw as the lack of resources Barclays was putting into card security.

In January last year he resigned, thinking his bosses would plead with him to stay. When they accepted his decision, he became resentful.

He began sending letters in which he demanded the bank set up a 'super security team' of 14 experts, including himself, each paid £1.7million.

Otherwise, he warned, he would publicise the bank's lack of security

and the codes. The police were called and identified Browne as the culprit.

Browne said the demands he made in a series of four letters to the bank's chief executive were a 'huge joke'.

Sally Bennett-Jenkins, prosecuting, told the jury: 'You may think his allegations of bad security have merit. But that's not the issue. The question is whether he is guilty of blackmail.'

She said if Browne had released any information it would have been 'highly embarrassing' for Barclays.

Browne, of Knutsford, Cheshire, denies blackmail between March and September 2000. The case continues.

Wednesday, October 31, 2001 **METRO**

E-mail scam to hijack company

AN ACCOUNTANT hatched an e-mail plot with a US businessman to kidnap two rivals and hijack their company, a court heard yesterday.

Peter Rapaport, 55, hired two thugs – one of whom used to guard the Queen – to snatch Philip Mason and Anne-Marie Moore at knife-point.

They were ordered to sign resignation letters and documents handing ownership of their corporate hospitality business to David Reiss, who masterminded the scheme from his home in Texas.

The victims were handed a list of rules and told their families would

BY FINIAN DAVERN

suffer if they did not obey them. The couple were then released but, despite the threats, went straight to police.

The next day, officers raided the Affinity Group in Twickenham, Middlesex, and found new 'owner' Reiss already making himself at home.

Middlesex Guildhall Crown Court was told Mr Mason met Reiss more than ten years ago and became friends.

They had an arrangement whereby the American was paid commission for any deals he helped to set up.

But the relationship soured when

Reiss demanded £35,000 he had not earned. Mr Mason had no contact with him for months – but Reiss was secretly plotting revenge with help from Rapaport.

Among evidence retrieved from the accountant's home was a string of incriminating e-mails he sent to Reiss.

Rapaport, of Maida Vale, West London, was convicted of conspiracy to rob and falsely imprisoned and remanded in custody until November 16, with a warning he faces jail.

Reiss, 48, of Dallas, Texas, pleaded guilty at an earlier hearing and has also yet to be sentenced.

Four years for banker who took £1.5m from till

By RICHARD SAVILL

A BANK executive who admitted stealing £1.7 million from her firm to fund a life of luxury was jailed for four years yesterday.

Beryl Rowlands, 58, former head of private banking division of Dunbar Bank, a subsidiary of Zurich Financial Services, based in Swindon, Wilt, lavished expensive gifts on friends, her children and grandchildren and treated herself to Rolex watches and exotic holidays.

Swindon Crown Court was told that Rowlands, who took £1.5 million in cash from the



Beryl Rowlands: luxuries

offered to help the company to identify weaknesses in their system to prevent any possible repetition.

He added that Rowlands had sought to "bolster her self-esteem" by giving "extravagant gifts" and had found admitting her guilt "cathartic".

She was suspended in May last year when a junior staff member stumbled across the fraud when Rowlands was seen inputting financial data without documentation.

Ian Lovett, chief executive of Dunbar Bank, said yesterday: "This was a serious fraud."



The response

- Do your homework
- Learn from reported incidents
- Use the WWW for research
- Apply the fixes
- Test for vulnerabilities
- Monitor activity



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The threat from within

- Employees
- Ex-employees
- Tools readily available
- On-line storage
- "promiscuous" network cards



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Techniques used (Based on our experience)

- Infiltration of staff
- Probe type attacks
- Packet sniffing
- Keystroke logging (Hardware and Software)
- Trojans / Remote Access Programs
- Email forwarding / capture
- On-line storage



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Packet sniffing program – run from a floppy disk

Local IP	Remote IP	In	Out	Direction	Session	Ports	Hostname	Bytes
90.0.0.1	90.0.0.2	0	229	Out	2	1113.netbios-ns,1107,1101,1116,11	SARAH	32,614
64.4.13.83	90.0.0.2	0	123	Out	0	1113	SARAH	20,153
64.4.13.72	90.0.0.2	0	58	Out	0	1107	SARAH	6,246
64.4.13.210	90.0.0.2	0	8	Out	0	1101	SARAH	971
64.4.13.230	90.0.0.2	0	26	Out	0	1116	SARAH	3,150
64.4.13.132	90.0.0.2	0	2	Out	0	1112	SARAH	105
90.0.0.1	90.0.0.255	0	12	Out	0	netbios-dgm,netbios-ss		2,062
90.0.0.3	90.0.0.255	0	4	Pass	0	netbios-ss,netbios-dgm		526
90.0.0.1	90.0.0.3	2	4	In	0	domain,netbios-ss	HEATHER	821
64.4.13.236	90.0.0.2	0	10	Out	0	1117	SARAH	350
90.0.0.4	90.0.0.255	0	2	Pass	0	netbios-dgm,netbios-ss		350
90.0.0.1	90.0.0.4	12	20	Out	2	netbios-ss,1056	FRONA	4,016

No	Prot	MAC/Addresses	IP Addresses	Ports	Time
3	IP	00:50:BA:E9:05:E2 => 00:00:04:41:1B:F6	90.0.0.1 => 90.0.0.2	20000 => 1113	19:25:35.343
4	IP	00:50:BA:E9:05:E2 => 00:00:04:41:1B:F6	64.4.13.83 => 90.0.0.2	1563 => 1113	19:25:35.359
5	IP	00:50:BA:E9:05:E2 => 00:00:04:41:1B:F6	90.0.0.1 => 90.0.0.2	20000 => 1113	19:25:35.937
6	IP	00:50:BA:E9:05:E2 => 00:00:04:41:1B:F6	64.4.13.83 => 90.0.0.2	1563 => 1113	19:25:35.953
8	IP	00:50:BA:E9:05:E2 => 00:00:04:41:1B:F6	90.0.0.1 => 90.0.0.2	20000 => 1113	19:25:36.343
9	IP	00:50:BA:E9:05:E2 => 00:00:04:41:1B:F6	64.4.13.83 => 90.0.0.2	1563 => 1113	19:25:36.359
10	IP	00:50:BA:E9:05:E2 => 00:00:04:41:1B:F6	90.0.0.1 => 90.0.0.2	netbios-ss => netbios-ss	19:25:36.575
12	IP	00:50:BA:E9:05:E2 => 00:00:04:41:1B:F6	90.0.0.1 => 90.0.0.2	netbios-ss => netbios-ss	19:25:36.890
14	IP	00:50:BA:E9:05:E2 => 00:00:04:41:1B:F6	90.0.0.1 => 90.0.0.2	20000 => 1113	19:25:38.068
15	IP	00:50:BA:E9:05:E2 => 00:00:04:41:1B:F6	64.4.13.83 => 90.0.0.2	1563 => 1113	19:25:38.964
17	IP	00:50:BA:E9:05:E2 => 00:00:04:41:1B:F6	90.0.0.1 => 90.0.0.2	20000 => 1113	19:25:42.437
18	IP	00:50:BA:E9:05:E2 => 00:00:04:41:1B:F6	64.4.13.83 => 90.0.0.2	1563 => 1113	19:25:42.453



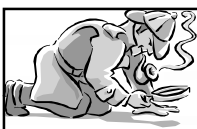
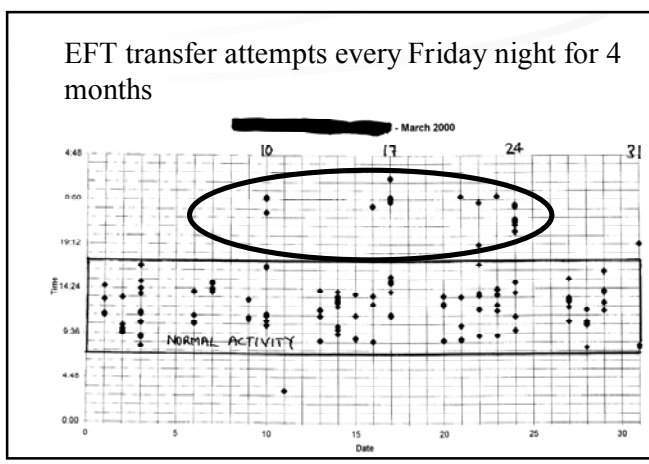
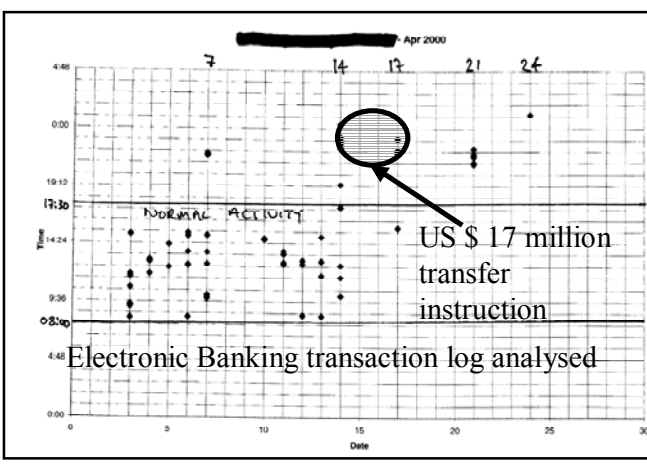
Lets look at an EFT fraud

- Bank reported funds transfer over the weekend
- Company established it was unauthorised
- Implemented Security Incident Response Plan



Immediate Action Drills

- Suspend EFT facility
- Trace and freeze funds
- Preserve evidence
- Start hard hitting investigation
- Haymarket appointed to advise



What we found

- Targeted by organised crime
- IT expert infiltrated into company
- Used automated hacking tools – without success
- Trial and error approach – over 6 months
- Audit logs not fully on or monitored

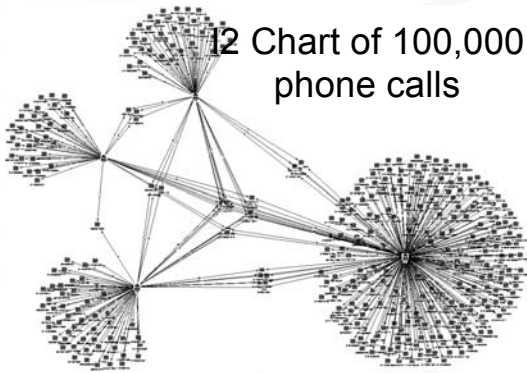


Eventual outcome

- 100% funds recovery
- Method of attack identified
- Perpetrators identified
- Lessons learnt and improved security
- All of this in 3 weeks – based 90% on computer forensics

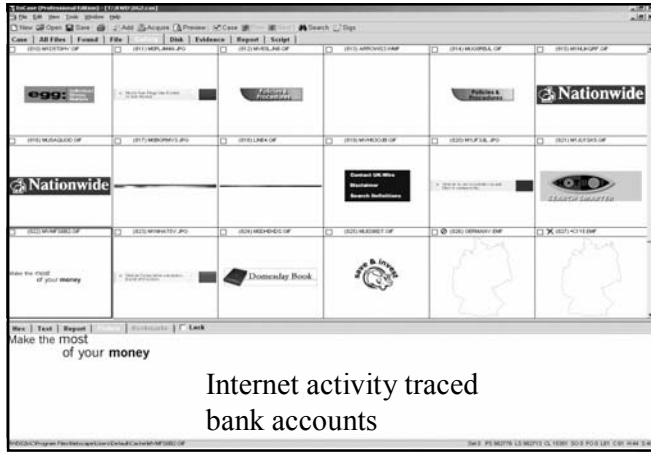


12 Chart of 100,000 phone calls



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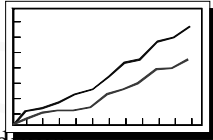
67



Internet activity traced
bank accounts

Other types of Digital Analysis

- Data mining
- Relative Size Factor
- Duplicate Payments
- Round Numbers & last 2 digits
- Number Frequency Factor
- Digital Fingerprints



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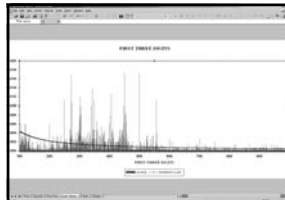
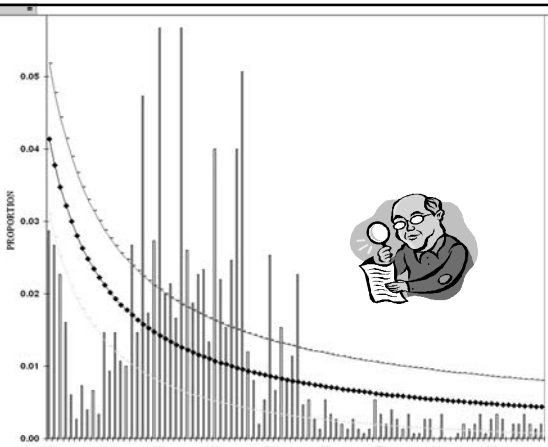
Digital Fingerprints



- Good for continuous audits
- Only just being developed
- Use DATAS™ to profile the data at a specific date
- Then compare it with the profile from a different date

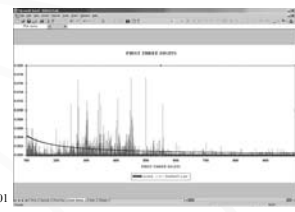
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70



Has the
profile
changed?

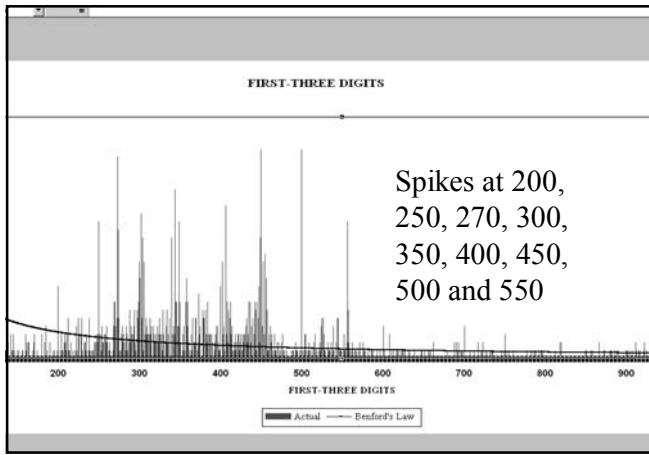
©HMSL 2001



BACS Payroll Report

REPORT TITLE: B.A.C.S. LIST
 REPORT #18 NAME: PPF1:7411816.005
 FROM LOGIN: 05/03/99 10:18
 PROGRAM SECTION: PAF05 0
 PROGRAM NAME: PAF05B
 SYSTEM: 03
 SYSTEM ID: 1
 SMOULD AT: 10118
 END: 05/30/99

BANK NAME	SEARCH	A/C NO	TYPE	CODE	AMOUNT
ROYAL BANK OF SCOTLAND	INVERNESS, HIGH ST	01759002	0	822210	239.22
BANK OF SCOTLAND	GLASGOW, HIGH ST	01111114	0	822110	237.41
HALIFAX	INVERNESS, HIGH ST	01641628	0	110415	241.15
CLYDESDALE BANK	GLASGOW, HIGH ST	01090022	0	070200	239.86
CLYDESDALE BANK	GLASGOW, HIGH ST	01222225	0	822227	240.09
CLYDESDALE BANK	INVERNESS, HIGH ST	01040147	0	847011	241.11
CLYDESDALE BANK	GLASGOW, HIGH ST	00784100	0	820928	241.24
ROYAL BANK OF SCOTLAND	GLASGOW, HIGH ST	00200281	0	821317	240.46
HALIFAX BUILDING SOCIETY	GLASGOW, HIGH ST	01040147	0	110415	239.80
BANK OF SCOTLAND	GLASGOW, HIGH ST	01204115	0	820919	241.20
ROYAL BANK OF SCOTLAND	GLASGOW, HIGH ST	01204115	0	821317	237.42
TRUSTEE SAVINGS BANK	GLASGOW, HIGH ST	72115153	0	879704	236.32
CLYDESDALE BANK	GLASGOW, HIGH ST	00411704	0	800110	238.21
HALIFAX BUILDING SOCIETY	INVERNESS, HIGH ST	00058880	0	110415	239.45
ROYAL BANK OF SCOTLAND	INVERNESS	01040147	0	822110	237.33
CLYDESDALE BANK	WICK, MAIN ST	11175119	0	820827	242.83



AMOUNT	ACNO	SORTCODE
160.00	0	725810
50.00	0	725810
60.00	0	725810
25.00	0	725810
50.00	0	725810
50.00	0	725810
50.00	0	725810
50.00	0	725810
60.00	0	725810
70.00	0	725810
30.00	0	725810
50.00	0	725810
25.00	0	725810
25.00	0	725810
25.00	0	725810
246.32	0	134000
100.00	0	725810
50.00	0	725810

37 items have account numbers that are zero
Various round sum payments charged to misc expenses

What have we found?

- Deliberate errors introduced into BACS run
- BACS run includes expense payments
- Error report results in cash payments
- Approx £2000 being taken each week and shared between 3 corrupt employees

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Relative Size Factor

25,000.00

130.75

- Within a sub-set e.g. Vendor name
- Take largest item and second largest
- Calculate ratio
- Investigate anomalies
- Good at finding mis-postings and errors as well as fraud

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VENDOR	TRANSACTION NO	TRANSACTION1	RELATIVE_SIZE
2824	37,066.00	3	50.00 741.32
8947	68,806.68	2	148.39 463.69
7906	18,000.00	2	50.00 360.00
1882	3,207.17	2	16.00 200.45
10424	10,000.00	2	50.00 200.00
11840	205,961.66	2	1,060.00 194.30
4470	1,151.75	2	6.00 191.96
13308	2,318.63	2	17.00 136.39
7000	3,209.38	2	30.00 106.98
12570	11,654.70	2	116.00 100.47
3965	10,251.80	3	206.32 93.80
12703	45,173.92	11	496.00 91.08
13442	2,838.37	9	33.75 84.10
7297	453.75	2	5.40 84.03
2351	518.00	2	7.25 71.45
13123	2,619.54	3	38.17 68.63
12889	15,000.00	3	224.16 66.92



Cleaning Company

- 10 regular monthly payments of £496
- Then the big one - £45,173.92
- Awarded maintenance contract in suspicious circumstances
- 3 man company
- Collusion and kickbacks



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We live in a digital world:



- Traces of what we do are everywhere (Locard's Principle - "Every contact leaves a trace")
- Even if steps are taken to hide the evidence
- Windows OS is particularly good at "covertly" recording the activities of users
- As are many external sources of data e.g. Network Server logs

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The digital paradox

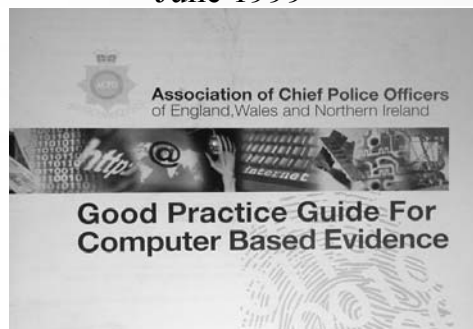


- Digital evidence is extremely fragile, and
- Surprisingly resilient!
- But, it needs very careful handling

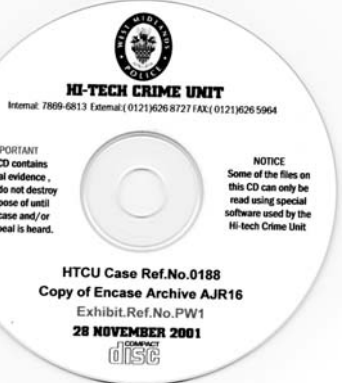
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Best practice guidelines June 1999



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The main principles:



- Do no harm – ensure the original evidence is not altered in any way
- Always work from a copy, or a forensic image
- Establish an evidential audit trail
- Ensure any conclusions can be reproduced by the other side


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Why use Computer Forensics?

- As part of the overall “evidence gathering”
- To eliminate the innocent
- To identify the guilty
- Usually part of an initial covert investigation, or
- To establish corroboration




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What can we expect to see using Computer Forensics?


- Activity involving deception
- True picture of lifestyle / pattern of use
- Internet or server activity
- Copying of documents
- Documents / emails that have been “deleted”




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Computer Forensics is particularly useful in cases involving:

- Collusion
- Theft of Intellectual Property or Confidential Information
- Receipt of bribes / backhanders
- Forgery of documents / signatures
- EFT fraud
- Blackmail / intimidation / harassment




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“Hidden” sources of information



- Windows Swap File
- File Slack
- Unallocated File Space
- Windows Registry
- Cookies
- “Recent” Links and Internet History
- Access and other logs



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Some monitoring can be done remotely

- Can be used for a usage audit
- Shows what staff are doing
- File transfers, internet usage
- Use of passwords and encryption
- Key word triggers

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Legal Issues



- Concern about intrusive monitoring (particularly on a covert basis and without informed consent)
- Data Protection Act 1998
- Human Rights Act 1998
- Regulation of Investigatory Powers Act
- Lawful Business Practice Regulations

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LBPR allows



- Covert investigation (without prior notification)
- If the circumstances can be justified
- If a less intrusive method can't be used effectively
- In order to prevent or detect crime

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Action Points



- Actively consider how to use Computer Forensics within your company
- Make use of the evidence you didn't know that you had!
- Set up contingency plans to capture forensic evidence

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Useful websites



- www.haymarketco.com
- www.cifas.org.uk
- www.cardwatch.org.uk
- www.grc.com
- www.sans.org
- www.e-commercetimes.co.uk
- www.wirednews.com
- www.mail-archive.com (cyber crime alerts)

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Where to go for further help

Ian Henderson

irh@haymarketco.com

020 7730 3244 Direct Line

020 7823 4141 Office

07940 540 399 Mobile



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Haymarket Management Services Limited

Biographies of key consultants

Ian R Henderson FCA

Ian Henderson is a Director of Haymarket Management Services Ltd (“Haymarket”) and is also responsible for Haymarket’s Forensic Accounting and Forensic Computer services.

After 7 years as an Army Officer specialising in covert operations and intelligence work, he qualified as a Chartered Accountant with the London Office of Binder Hamlyn, now part of Arthur Andersen. He specialised in investigations and computer audit at an early stage and worked on a number of Government and Department of Trade investigations.

Mr Henderson joined the regulatory division of Lloyd’s of London in 1986 and was subsequently appointed Head of Investigations, where he was responsible for investigating suspected fraud or misconduct world-wide. He also managed a team dealing with contractual disputes within the London Insurance Market. He personally led field teams in the United States and Caribbean in order to recover financial assets on behalf of underwriters. He regularly provided affidavit and expert witness evidence to law enforcement authorities in the United Kingdom and overseas and was a member of the Hendon Police College lecture panel. He was also responsible for a number of highly technical reports covering insurance losses totalling more than £3 billion. These reports were quoted extensively in the press and in proceedings in the High Court.

In 1996 Mr Henderson was appointed Head of Investigations at the Personal Investment Authority, the U.K.’s leading Financial Services regulator. He was responsible for many high profile investigations covering such diverse areas as pensions mis-selling, money laundering, mortgage fraud and theft of client funds. He was also responsible for negotiating settlements in disciplinary cases. He was appointed by the Bank of England as a full member of FFIN, the Financial Fraud Information Network and had regular contact with senior officials at the Treasury, the DTI, the SFO and other Financial Services regulators.

In 1998 Mr Henderson moved into the private sector and was appointed Investigations Director of a company specialising in the prevention, detection and investigation of corporate fraud. In addition to this role he was subsequently appointed Director of Forensic Accounting. Mr Henderson was responsible for a number of complex investigations and other work on behalf of private and corporate clients in the U.K., Europe, the Middle East and North America. These cases included a risk review on behalf of a FTSE 100 listed company, an investigation into a company that had received a clean audit report from a “big five” accountancy firm, but where Mr Henderson was able to demonstrate material mis-statement in the published accounts due to a fraud by the executive chairman. Mr Henderson was also appointed by the High Court and its equivalent in Scotland, the Court of Session, in order to obtain and analyse computer forensic evidence on a number of occasions. This work inevitably led to substantial financial recoveries.

Haymarket Management Services Limited

Ian R Henderson FCA (continued)

Since joining Haymarket in March 2000, Mr Henderson has managed a number of major investigations for blue chip clients. These included an electronic funds transfer fraud involving over £500,000 which resulted in a successful recovery, the identification of over £40 million of excessive payments on a £200 million construction contract, the detection of sexually explicit internet messages leading to dismissal of a senior member of staff and the recovery of evidence that allowed a claim for unfair dismissal to be successfully defended.

A particular professional interest is the recovery, analysis and presentation of digital evidence. Mr Henderson has developed a number of innovative techniques in this area, which are particularly appropriate in cases involving the theft or transfer of intellectual property, the loss of confidential information, or when conducting due diligence enquiries.

In January 2001, Mr Henderson was appointed Special Advisor to the Criminal Cases Review Commission, where he provides professional advice on high profile fraud cases.

In addition to his client work Mr Henderson regularly speaks at conferences organised by bodies such as the Institute of Chartered Accountants in England and Wales and the Institute of Internal Auditors. He has written a number of articles on fraud and compliance matters for specialist publications and the Financial Times and is often interviewed by the BBC.

Mr Henderson is a Fellow of the Institute of Chartered Accountants in England and Wales and an active member of the Audit and Information Technology Faculties of the ICAEW.

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