

Do you have your customer's back?

Understanding the impact of effectively fighting fraud

Jeff Douglas, Solutions Manager, ECM Solutions October 30, 2013

\$994 Billion



Fraud costs private and public sector enterprises hundreds of billions in revenues each year \$ 994 Billion in US alone

- Association of Certified Fraud Examiners

BANKING

There was a 25% rise in the fraudulent use of UK credit and debit cards last year (2007), with losses amounting to £535m...

ENERGY & UTILITIES

Customers have stolen power for decades, costing utilities 1% to 3% of revenue — or about \$6 billion industry-wide

TAXATION

Federal revenue lost to tax evasion from 2001-2010 estimated at \$3.09 trillion



INSURANCE

Latest national estimate for claims fraud in the U.S. is \$79 billion.

WARRANTIES

Upwards of 10% to 15% of claims are in some way suspect

WORKER'S COMPENSATION

25 percent of all workers compensation claims are fraudulent.

HEALTHCARE

Estimates place the loss due to health care fraud at a staggering \$226 billion each year.





In the 2012 "Report to Nations", the Association of Certified Fraud Examiners (ACFE) reports that Occupational Fraud is estimated to cost organizations \$3.4T annually

Interest in finding and fighting fraud is rising in terms of priorities for our public and private customers

- 1.Crime rings are increasingly turning to fraud
 - Fraud is low risk and relatively easy to conduct
- 2.Economic downturns lead to greater fraud and abuse

 Individuals and businesses seek new ways to make ends meet
- 3.Market conditions pressuring our customers bottom line

 Need to find new sources of savings
- **4.**Advances in analytics are make finding and preventing fraud both possible & economical

We can now do what we previously couldn't



- Survey participants estimated that the typical organization loses 5% of its revenues to occupational fraud each year
- The median loss caused by the occupational fraud cases in our study was \$140,000
- 20% of the cases were greater than 1M
- The frauds reported to us lasted a median of 18 months before being detected





The Telegraph



HSBC chiefs grilled on banking standards - as it happened, Feb 6, 2013

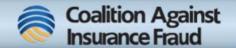
The chief executive and chairman of HSBC, Stuart Gulliver and Douglas Flint, admit HSBC was not 'fit for purpose' when its lax controls allowed two cartels to move \$881m in drug proceeds through the bank.



Britain's biggest bank was forced to pay \$1.9bn (£1.17bn) fine to settle allegations by US regulators that it allowed itself to be used to launder billions of dollars for drug barons and potential terrorists for nearly a decade until 2010.



Insurance Fraud NEWS



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Hospital CEO among six arrested in Medicare fraud scheme

April 17, 2013, Chicago, IL — FBI agents on Tuesday raided Chicago's Sacred Heart Hospital, arresting its CEO, another executive, and four physicians in connection with a kickback scheme that pushed patients to undergo unnecessary, risky procedures.

According to the Chicago Tribune, employees had been working undercover with the FBI gathering evidence as part of a three-year investigation into a scheme that involved billing Medicaid and Medicare for unnecessary procedures, including sedation, penile implants, and tracheotomies.

The scheme brought in at least \$2 million in reimbursements, and more than \$225,000 in cash kickbacks were paid to involved physicians since 2012, prosecutors say. Involved physicians also received indirect kickbacks, such as covering the salaries of employees and training costs for non-existent students, according to investigators.







The Telegraph



HOME » NEWS » UK NEWS » LAW AND ORDER

Chip and pin scam 'has netted millions from British shoppers'

A sophisticated "chip and pin" scam run by criminal gangs in China and Pakistan is netting millions of pounds from the bank accounts of British shoppers, America's top cyber security official has revealed.





Law and Order
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By Henry Samuel in Paris

2 12 Comments

Dr Joel Brenner, the US National Counterintelligence Executive, warned that hundreds of chip and pin machines in stores and supermarkets across Europe have been tampered with to allow details of shoppers' credit card accounts to be relayed to overseas fraudsters.



Pictures of the day

Fraud undermines consumer confidence and effects loyalty; It shapes the quality of customer you attract



Detroit couple face fraud charges in Meijer gift card sprees



selling the goods to employees at a Southfield gas station.



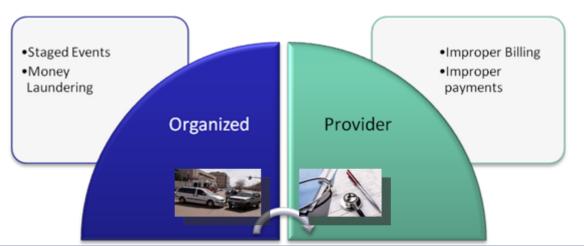
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Fraud is a deliberate misrepresentation or deception intended to result in financial gain. Fraud is a criminal act, while Abuse refers to similar actions not proven to be criminal;. Threat is also similar to fraud but can include political and other non-financial objectives

Organized rings
conducting
sophisticated attacks
against corporations for
producing financial
gains



Providers taking advantage of public and private institutions for the purpose of improper financial gain

Organized

Opportunistic

Individuals seeking improper payments by taking advantage of private and public institutions



Employees creating fraudulent transactions, records, and claims to receive improper payments from Employers

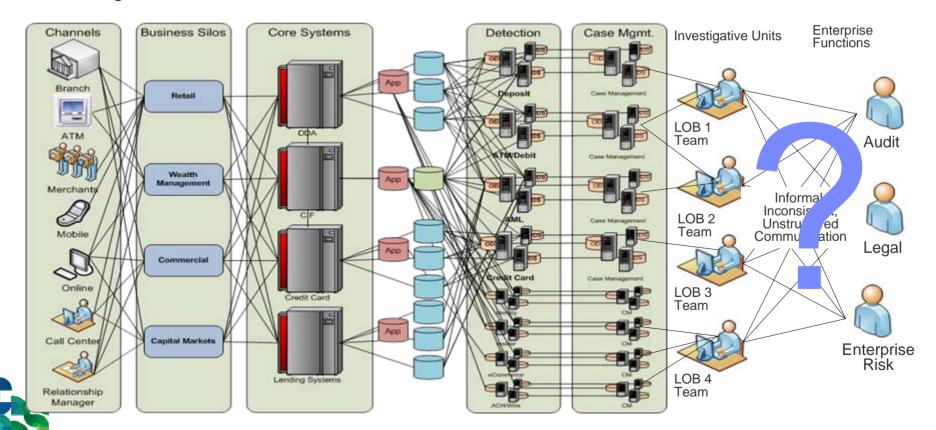


The Challenges of Fighting Back



Fraud schemes are becoming more complex

- Complex patterns; many channels
- Structured and unstructured data
- Tight deadlines to assess risk and investigate possible fraud
- (LOB) Investigation Unit is focal part of the solution, involve other stakeholders to enrich investigation and raise awareness





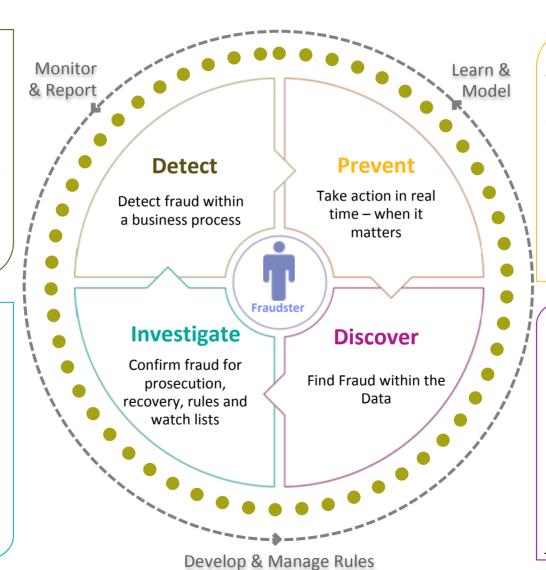
We approach reducing fraud by providing the capabilities to address the four specific capabilities common across all industries and most forms of fraud

Detect

Detect in real time if a transaction, request, application, document, etc. is potentially fraudulent by applying models and rules in real time to determine the propensity for fraud

Investigate

Gather data about fraudsters and/or schemes DETECTED or DISCOVERED. Build cases for prosecution, recoveries, or denial of payments. Build watch lists and rules to apply to DETECTION and/or DISCOVERY



Prevent

Apply the results of
Detection to stop
processing known fraud,
or encourage fraudsters
to abandon their
objective by showing
more is known than they
think should be known
about their activities and
intentions

Discover

Discover fraud that may exist in in a business or public organization by retrospectively reviewing past data and identifying individuals or organizations that may be conducting fraudulent activities



IBM Fraud Solution Framework

Operational Systems

Advanced Industry Libraries:

Data Models, Predictive Models, Rules, Reports, Process, External Fraud Data etc.

Real Time / "In line" —

Prevention



Integration

Action

Guidance

Rules

Detection



Predictive Analytics

Rules

Decision Management

Back Office Analytics

Discovery



Selection

Evaluation

Anomalies

Identification

Investigation



Case Management

Relationship Visualization

Investigative Analytics

Reporting



Operational Reporting

Dashboards

Feedback

Observation Space

Information Domains



Internal Sources

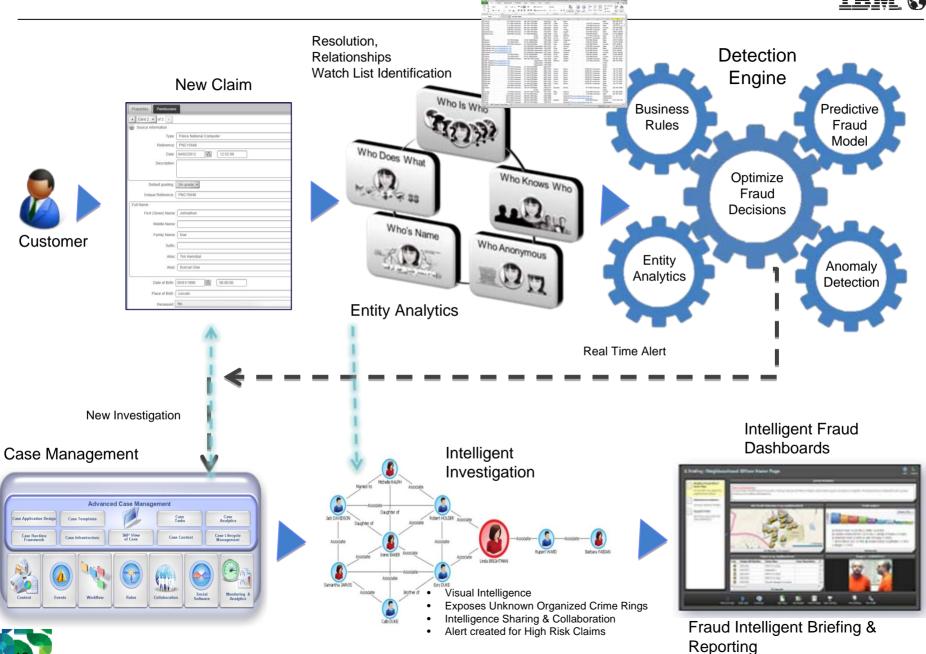
External Sources

Evolving Unstructured Sources

Fraud Use Case Libraries

DETECT, PREVENT, INVESTIGATE, REPORT





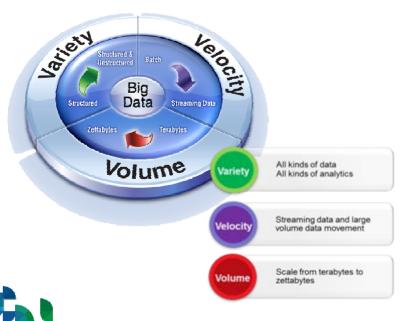


Driving the investigation



Fraud investigative challenges

- Enterprise data is stored across many disparate systems; and data volumes are large (and growing)
- Fraud is perpetrated across multiple channels (online, mobile, call center, crossbrand etc) and possibly includes insider collusion
- Investigation is only possible by joining all relevant information and presenting it in an actionable, easy-to-digest format



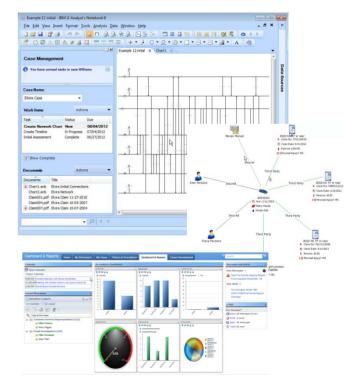
- The investigation must be completed quickly to minimize the costs (fraudulent payments, internal investigation costs and costs of recovery)
- Existing **detection** systems often lack the flexibility (ability to include ad-hoc data to support investigation) ease of use and "white box" approach
- Fraud is high on the boardroom agenda; failure to deal with it is damaging to brand, customer and regulator relationships, shareholder value and profitability.



The IBM Intelligent Investigation Manager Solution Integrating case management, forensic analysis and content analytics to optimize fraud investigation

- Efficiently process cases and coordinate activity across the investigative team
- Conduct forensic analysis, generate leads, visualize the scope of the fraud and gather evidence. Capture results directly into the case.
- Discover new entities, patterns and insights by searching through structured and unstructured content
- Facilitate the management of the case including the handoff to supervisors, litigators or other authorities
- Provide transparency into the effectiveness of the investigative process using integrated KPI reporting and analytics









Intelligent Investigation – a new approach Combining analytics and case management to optimize investigation



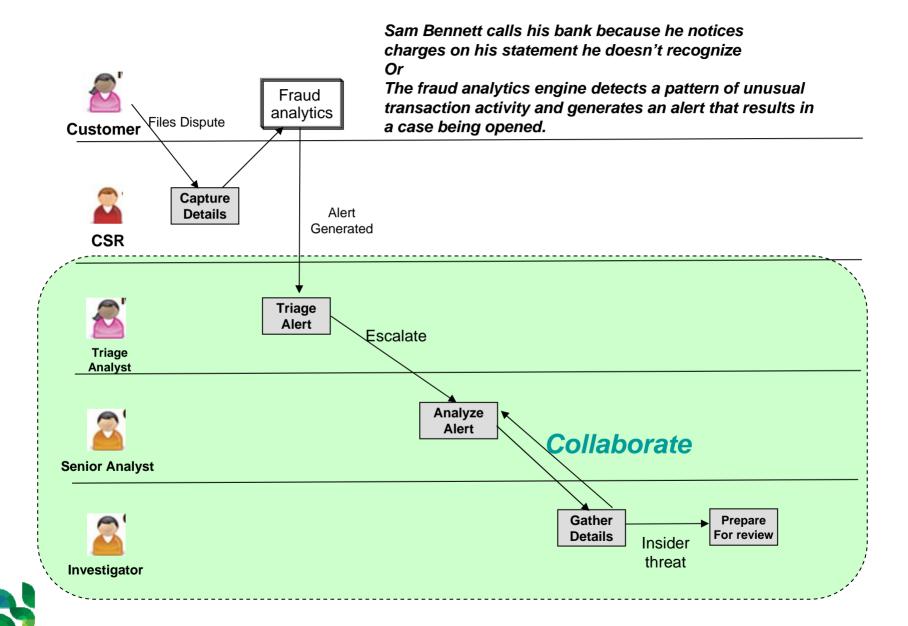
Advanced Case
Management for
delivering customized
investigative solutions
that enable investigative
teams to efficiently
manage an investigation

Forensic Analysis in the context of the investigation for generating leads, identifying scope, and gathering evidence.

Content Analytics for driving the discovery process across all available data during the investigation

Demonstration – Account takeover







IBM Advanced Case Management

Brings people, process and information together ... in context of a case



- Delivers optimized case outcomes
- Supports dynamic, runtime work management
- Delivers trusted information to the case – structured or unstructured
- Manages and governs entire case lifecycle
- Provides the line-of-business and IT with tools to rapidly deliver casebased solutions



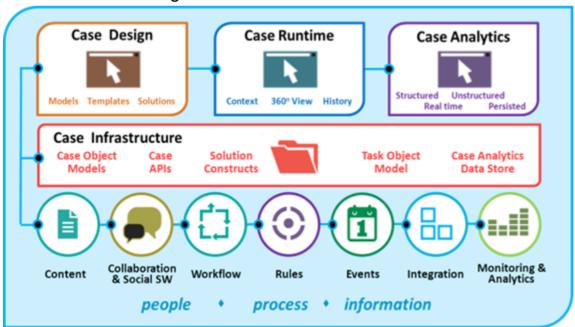


Simplifying the delivery of Fraud case-based solutions

Detect Prevent Discover Investigate Report

IBM Intelligent Investigation Manager provides the following benefits:

- ✓ Rapid time-to-value; better, faster, more cost effective Fraud investigations
- ✓ Organizations will not lose sight of fraud cases
- ✓ Cases are always visible and can be escalated with timers and rules
- ✓ All information is integrated within the context of a fraud case



Case User Experiences

Comprehensive Case Infrastructure

Core Capabilities





Analytics for Investigations

Detect

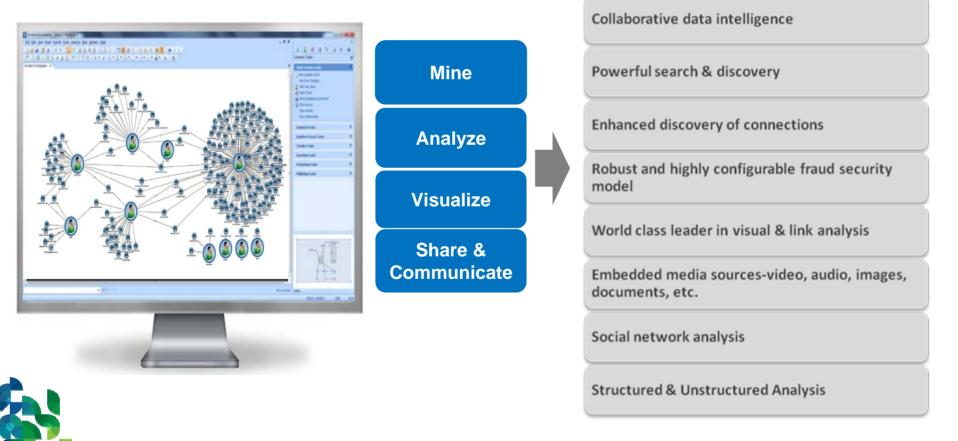
Prevent

Discover

Investigate

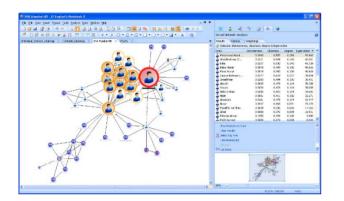
Report

IBM's i2 solutions bring together seemingly unrelated information for high-value awareness and provides sophisticated solutions to:

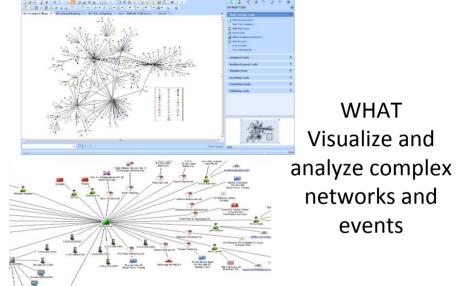




Solution "deliverables" – document, repudiate, prosecuting Quickly and effectively

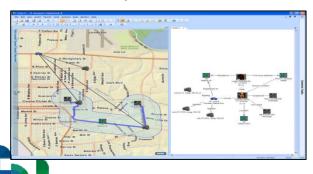


WHODocument fraud rings

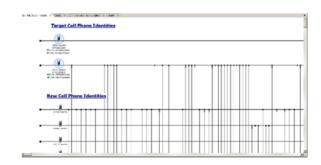


WHERE

Document incidents to support investigation and prosecution

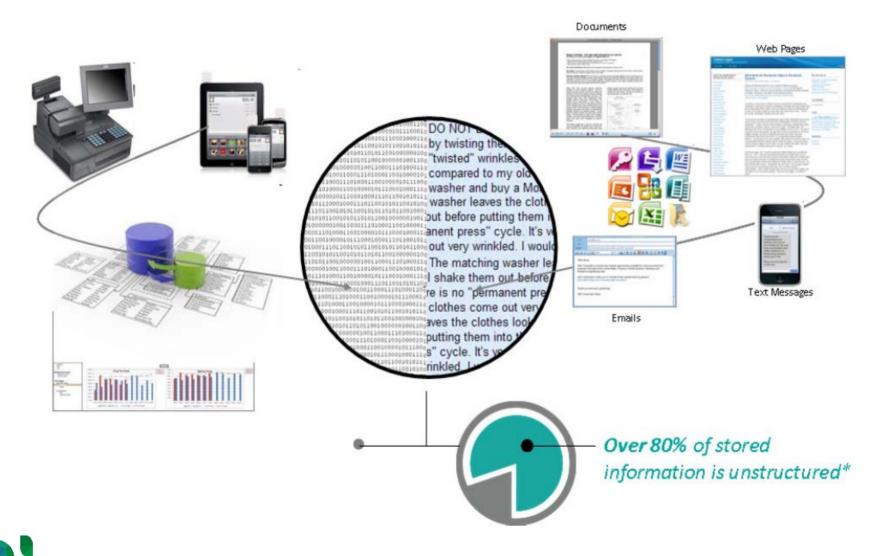


WHEN
Plot transactional
timelines





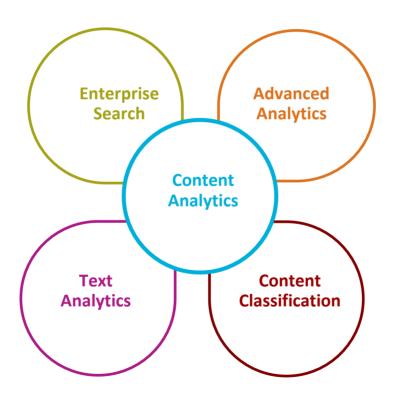
The Intersection of Content and Analytics





Search, Analyze and Classify overlapping with Content

Content Analytics with Enterprise Search is a unified content analytics and search platform that helps anticipate and shape business outcomes by surfacing new insight and unknown realities from enterprise content, tackling complex analytics issues, even as your information grows to Big Data scale







Putting it all together

Bringing it all together...



Intelligent Investigation Manager provides:

Advanced Case management for

Efficiency and transparency to investigative process

Coordination and management of overall investigation

Forensic Analysis to drive the investigation

- More leads
- Visibility into relationships and scope
- Evidence

Content Analytics for

- Deeper insights
- Undiscovered realities, patterns, entities and anomalies









Why IBM

- We believe that our approach offers a unique, high quality solution
- to address your unique challenges around fraud.
- These can be summarized by our core values Key elements which make our proposal unique are:



World Class Integrated Claims Fraud Solution

Fully integrated Best of breed, proven solutions

Completeness of Vision

IBM's vision for fraud extends to all aspects and is unique in its comprehensiveness in detecting, preventing, discovering, and investigating fraud

Skills and Expertise

From data architects to predictive modelers to badge carrying investigators – IBM is unique in the number and nature of skills to make this solution a success

IBM Research

What is proposed in the attached just scratches the surface in terms of what's possible. Your solution will continue to grow and expand in capabilities that no one else can match

IBM Commitment

IBM is committed to your success, and to structuring a partnership that ensures a mutually beneficial outcome



Question & Answers



