Countering Fraud Risk

Managing Business Integrity and Internal Control to Ensure Compliance: A Bank Case Study

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Countering Fraud Risk ไพรัช ศรีวิไลฤทธิ์ pairat@tisco.co.th

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Speaker Profile

PAIRAT SRIVILAIRIT, CIA, CISA, CISSP, CFE, is Head of Governance Office of TISCO Financial Group, PLC. and enables organization in the use of Computer-Assisted Audit Tools and Techniques (CAATS) technology to address weakness in business operation and control, and detect frauds. He is associated with finance and banking industry for over 20 years with rich experiences in the area of management consulting, planning, research, investment, operation and audit, and is a known lecturer on operational auditing and fraud examination courses. He can be contacted at pairat@tisco.co.th



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Outline

Countering Fraud Risk – Managing Business Integrity and Internal Control to Ensure Compliance: A Bank Case Study

- Most common fraud understanding how it is committed and detected
- Key indicator of fraud symptom of fraud and trend in banking industry
- Insider threat internal computer fraud and misuse / application control
- Fraud prevention checklist Internal control systems to mitigate risk of fraud and ensure compliance

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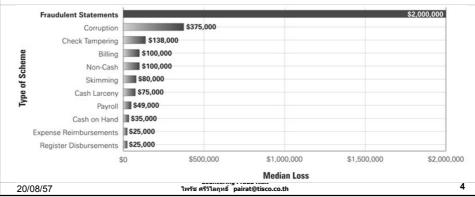
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How Fraud is Committed

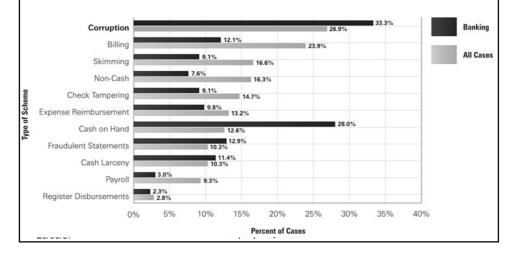
 Asset misappropriations were most common but low loss. Fraudulent statements were least common with highest loss.

Breakdown of All Occupational Fraud Schemes — Median Loss



Bank Most Common Fraud

• Greatest percentage (15%) of fraud occurred in banking and financial services sector.



ตัวอย่างทุจริตในธนาคาร



- การทุจริตโดยพนักงานธนาคาร
 - พนักงาน ขโมยเงินสด ของสาขาไปใช้ประโยชน์ส่วนตน
 - พนักงานสาขา ปลอมลายมือชื่อ ลูกค้าที่บัญชีไม่เคลื่อนไหว นาน หรือ ยักยอกบัตร และรหัส ATM ที่ลูกค้ายังไม่มารับไป และถอนเงินไปใช้ส่วนตัว
 - พนักงานสินเชื่อรับชำระค่างวด ค่าธรรมเนียม หรือค่าประกัน จากลูกค้า และ ไม่นำส่งธนาคาร
 - พนักงานบรรจุเงินสดในเครื่อง ATM ไม่ครบตามที่แจ้งไว้
 หรือ ขโมยเงิน ที่เครื่อง Reject ออก
 - พนักงานสินเชื่อหรือผู้บริหารรู้เห็นกับลูกค้า ประเมินมูลค่า หลักประกันสูง กว่าความเป็นจริง.

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ตัวอย่างทุจริตในธนาคาร

- การทุจริตโดยลูกค้าและบุคคลภายนอก
 - ปลอมเว็บไซท์ของธนาคาร เพื่อหลอกลวง
 ข้อมูลจากลูกค้าไปใช้ทำทุจริต (Phishing)
 - ใช้การทำ ธุรกรรมที่ซับซ้อน กับธนาคารเพื่อ ปกปิดแหล่งที่มาของเงิน (Money laundering)
 - สนอ ผลประโยชน์ที่สูง หรืออ้างตัวเป็นเจ้าหน้าที่ทางการ
 เพื่อหลอกลวงข้อมูลหรือเงินจากบัญชีลูกค้า
 - ปลอม เอกสารแสดงตนและหลักฐานการเงิน เพื่อกู้ยืมจาก ธนาคารโดยเจตนาไม่ชำระคืน
 - ติด อุปกรณ์อ่านแถบแม่เหล็กและกล้องวิดีโอ ที่ตู้ ATM เพื่อ ทำสำเนาบัตรและเบิกเงินจากบัญชีลูกค้า (Skimming).

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How Fraud is Detected It takes 24 months on average to catch employee fraud Initial Detection of Occupational Frauds⁴ 46.2% 20.0% By Accident 25.4% 19.4% Internal Audit 20.2% Internal Controls 9.1% External Audit Notified by Police 3.8% 40% 50% 20% 30% **Percent of Cases**

Key Indicators of Fraud

- Tips / Complaints
- Missing / Alteration of documents
- Duplicate / Unreasonable expenses or reimbursements
- Failure of certain employees to take vacations
- Failure to follow up on past-due receivables
- Unusual write-offs of receivables
- Employees on the payroll not sign up for benefits
- Excessive purchase of products or services
- Common phone numbers / addresses of payees or customers

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Key Indicators of Fraud

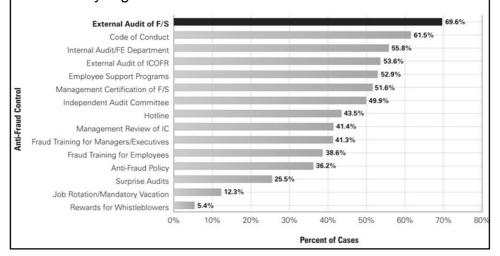
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- Cash shortages / overages
- Stale items on bank reconciliations
- Unexplained adjustments / Journal entries
- Unusual financial statement relationships i.e.
 - Increased revenue vs. decreased receivable
 - Increased revenue vs. decreased inventory purchase
 - Increased inventory vs. decreased purchase or A/P
- Significant increases or decreases in account balances
- Significant changes in liquidity, leverage, profitability or turnover ratios

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Limiting Fraud Losses

 Surprise audit and job rotation are still overlooked by many organizations.



Limiting Fraud Losses

 Surprise audit, job rotation, and anonymous reporting showed the greatest impact on fraud losses.

Median Loss Based on Presence of Anti-fraud Controls					
Control	% of Cases Implemented	Yes	No	% Reduction	
Surprise Audits	25.5%	\$70,000	\$207,000	66.2%	
Job Rotation / Mandatory Vacation	12.3%	\$64,000	\$164,000	61.0%	
Hotline	43.5%	\$100,000	\$250,000	60.0%	
Employee Support Programs	52.9%	\$110,000	\$250,000	56.0%	
Fraud Training for Managers / Executives	41.3%	\$100,000	\$227,000	55.9%	
Internal Audit / FE Department	55.8%	\$118,000	\$250,000	52.8%	
Fraud Training for Employees	38.6%	\$100,000	\$208,000	51.9%	
Anti-Fraud Policy	36.2%	\$100,000	\$197,000	49.2%	
External Audit of ICOFR	53.6%	\$121,000	\$232,000	47.8%	
Code of Conduct	61.5%	\$126,000	\$232,000	45.7%	
Management Review of IC	41.4%	\$110,000	\$200,000	45.0%	

Bank Case Symptoms

- Supervisory override, unusually large transactions or with no apparent business purpose
- Journal voucher contain only one signature, containing incorrect information, fund transfer between different customers' accounts
- Deposit slip with missing information, depositor names incomplete or not match with passbook or acct name.
- Frequent, large deposit/withdrawal in Executive account
- Deposits and withdrawals on same account on same day or in a short period of time
- Bank checks used to transfer between accounts / checks with altered date.

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Symptoms ... More

- Purported customer signature on withdrawal voucher and checks
- Large negative balances in slush accts or customer accts
- Deposit slip of customer funds between accts of different customers
- Deposits of customer check where cash was received back
- CDs closed prematurely with proceeds put into low interest account, sometimes with penalty
- Customer not presented when account was opened, closed or transacted
- Mailing of customer statement to Executive address

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Bank Fraud Trend

- Fraud financial cost may be three or more times the value of loss amount
- Fraud is not static. It evolves with each new measures implemented
- New opportunities for employee fraud are emerging
- Criminals thwart rules-based systems
- "Silo" mentality weakens fraud detection
- Top management are moving toward an enterprise focus on anti-fraud systems
- Regulatory expectations are increasing
- Solutions require commitment, investment, and talent

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Insider Threat

- "Deliberate misuse by those who are authorized to use computer and networks."
- Insiders include employees, contractors, consultants, temporary helper, personnel from third-party business partner, etc.

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Facts about Insider Misuses

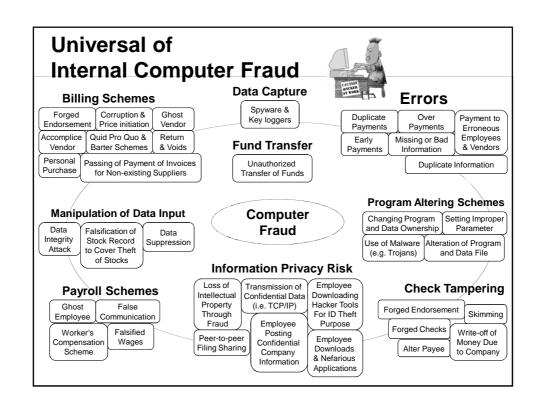
- Most were not technically sophisticated or complex
- Most were thought out and planned in advance
- Most were motivated by financial gain
- Most perpetrators of banking and finance incidents
 - Not hold technical position
 - Never engage in technical attack or hacking
 - Not necessarily perceived as problem employees
- Executed at workplace during normal business hours
- Detected by various channels and methods.

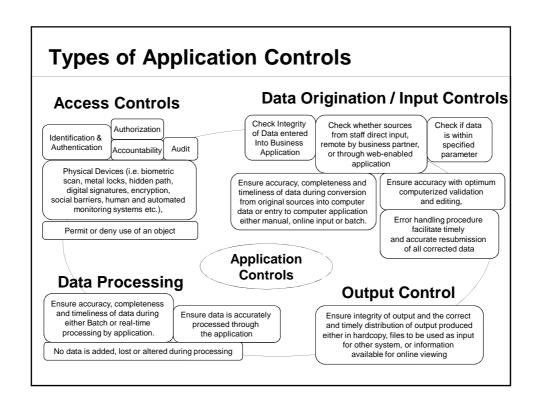
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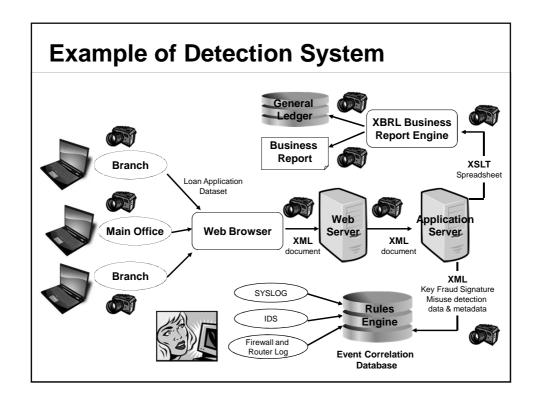
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Misuse of Applications

Applications	Legitimate Use	Misuse		
Client/Server	Message exchange	 Unusual exchange to degrade performance 		
	 Connectivity to server 	Exceedingly connection (DOS)		
	Execution of tasks	Execute privileged procedure		
Mail Clients	Send and receive e-mails	Illegal content / remote attack / private use / overload network		
	 Browse Internet / play files 	 View illegal content 		
Multimedia player	 View cached file and history 	 Display other users' viewed files and accesses 		
	 Develop program 	Create malware		
Tools	 Display memory segment 	 Access memory segment with sensitive information 		
General- purpose Applications	Read / write	Access temp file for sensitive information / modify temp file to change program flow		
	Input strings	Buffer overflow		







Managing Insider Threat

- Strong authentication / biometric technologies
- Role-based access granted on a need-to-have basis
- Rotate job function / event log reading
- Place server and sensitive equipment in secured area
- Restrict physical access / lock / alarm test
- Wear badge / background check
- Default password / unused port / log-off on absence
- Encrypt sensitive data stored on user hard drives
- Store sensitive document in secured space
- Never issue password over unsecured channels

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Aware of Warning Signs

- Rogue access point / wireless / remote
- Disgruntled employee
- A user accesses database or area of network they have never accessed before
- Download spike

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Fraud Prevention Checklist

- Good internal control
- Employee fraud awareness training / hotline
- Analytical review / surprise fraud audits
- Review company contracts
- Perception of detection / management oversight
- Proactive fraud policy and program / prosecution
- Mandatory vacations / periodic job rotation
- Screen job applicants
- Information security review / limit access / audit trail
- Management climate / employee support program

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Summary

Your roles in combating fraud

- Promote culture of honesty and high ethics
- Assess and mitigate the risk of fraud
- Ensure control adequacy and effectiveness
- Use data mining and statistical analysis tools
- Analyze financial statements reports
- Being alert on predication of fraud
- Ensure investigations are properly conducted
- Ensure proper follow-up actions are taken
- Develop your anti-fraud knowledge and skills

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 ไพร์ช ศรีวิโลฤทธิ์ pairat@tisco.co.th

Q&A

PAIRAT SRIVILAIRIT
AEVP Head of Governance Office
TISCO Financial Group Public Company Limited
Mobile : +668 1903 1457

Mobile : +668 1903 1457 Office : +66 2633 7821 Email : pairat@tisco.co.th

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