The New Faces of Fraud and How to Thwart Them

Presented at

By Greg Litster, SAFEChecks

Mobile Banking/Deposit Fraud:

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Check Fraud and Payment Fraud:

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Cyber Crime:

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Mobile Banking and Deposit Fraud



Mobile Banking and Deposit Fraud



<u>Scenario</u>: A title insurance company gives John Doe a check at closing. John Doe steps outside, <u>deposits the check via a mobile app</u>, then comes back in and returns the check, asking that it be made payable to John Doe <u>and</u> Jane Doe.

Mobile Banking and Deposit Fraud



The company does not think to put a Stop Payment on the first check, because they have the physical check in hand.

- 1. If a physical check is returned for a replacement, place a stop payment on the returned check. It may have been deposited remotely.
- 2. Recipient MUST <u>sign an affidavit</u> stating the check was not "deposited."
- 3. An <u>Affidavit does not provide protection</u>, only a right to sue and collect legal fees.

Check Fraud...

Why talk about Check Fraud?

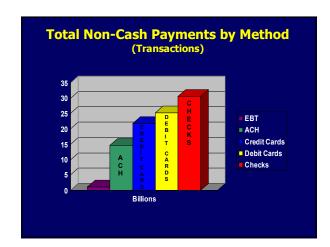
Check Fraud produces more losses than all other payment fraud COMBINED!

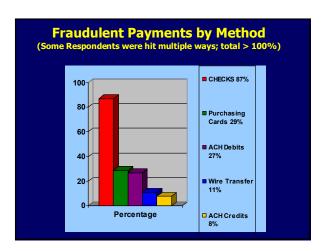
Association for Financial Professionals (AFP) 2013 Payments Fraud Survey:

"Checks remain the most popular vehicles for criminals committing payments fraud, even though the corporate use of checks has declined."

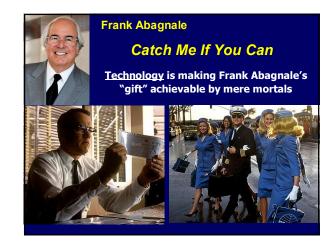
Association for Financial Professionals (AFP) 2011 Payments Fraud Survey:

"Checks continue to be widely used and abused, and fraud via check payments remains the overwhelming threat faced by companies."

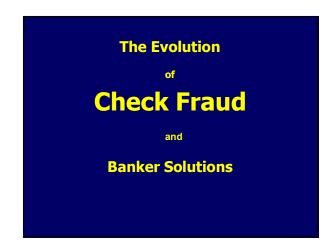












Counterfeit Checks ...Banks developed Positive Pay

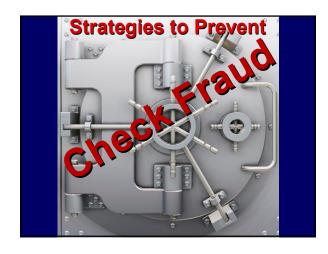
Altered Payees ...Banks developed Payee Positive Pay











Don't Write Checks! • Use Commercial Purchase Cards • Pay electronically (ACH)

Commercial Purchase Card Benefits

- 1. Reduces check writing and check fraud risk
- 2. Does not expose the checking account number
- 3. Terminating a card is easier than closing a checking account.
- 4. Reduces bank per-item fees
- 5. Increases payment float by 40+ days
- 6. Reduces interest expense
- 7. Potential for Rebates or Rewards

ACH Payment Benefits

- 1. Reduces check writing and check fraud risk
- 2. Does not expose the checking account number
- 3. Reduces late fees
- 4. Reduces mailing expense and bank fees
- 5. Pay 1 invoice at a time, or
- 6. Pay multiple invoices and email remittance detail

If you're going to write checks...

#1. High Security Checks

Effective check fraud prevention strategies begin with a high security check

High Security Checks

- 1. Deter the forger (psychological warfare)
- 2. Thwart attempts to replicate or alter the check
- 3. May help protect you legally from some Holder in Due Course claims

What makes a check secure?

10+ safety features

Important Security Features

- > Controlled Check Stock
- > Dual-tone True Watermark
- > Thermochromatic Ink (reacts to heat)
- > Correctly Worded Warning Banner
- > Toner Anchorage
- Copy Void Pantograph
- ➤ Chemical-reactive Ink + Paper
- ➤ Inventory Control Number on Back (laser)
- ➤ UV Ink + UV Fibers
- Microprinting
- ▶ Laid Lines

"Controlled" Check Stock is the most critical security feature

"Controlled" check stock is check stock that is unique to each company

<u>Uncontrolled check stock</u> is check stock that is sometimes sold entirely blank to anyone (including fraudsters)

Uncontrolled check stock is a major contributor to check fraud.

Who Sells Blank, **Uncontrolled Checks?**

- Software Companies
- >Bottom Line, Acom, Payformance, Create-a-Check, et. al.
- Deluxe
- > John Harland/Clarke American
- > SafeGuard
- Superior Press
- > Standard Register
- Moore Wallace
- > American Solutions for Business
- ➤ Office Depot
- > Small Print Brokers / Distributors

How to Obtain Controlled Checks?

Custom Manufacture with an ORIGINAL design and include at least 10 security features

or

- Abagnale's SuperBusinessCheck (16 features)
- > SAFEChecks (12 features)



Positive Pay...

...a powerful tool!

Added or Altered Payee Names

Lawsuit

Cincinnati Insurance Company

Wachovia Bank

\$154,000 Loss from an Altered Payee

Preceding Events

Schultz Foods had 4 check fraud attempts against their account.

Wachovia repeatedly encouraged Schultz Foods to use Positive Pay.

Schultz Foods does NOT use Positive Pay, but it buys check fraud insurance.

Facts

<u>Dec. 1, 2005</u>: Schultz Foods issues \$154,000 check payable to Amerada Hess Corporation.

Facts

\$154,000 check is intercepted and stolen.

Payee Name changed to "Kenneth Payton."

Kenneth Payton, an unwitting participant, deposits \$154,000 check into TCF Bank.

Wachovia pays the altered check.

Facts

Per instructions, Kenneth Payton keeps \$3,500 and wires \$150K to Singapore to "...help a refugee South African family."

The money disappears.

Facts

<u>January 2006</u>: Schultz Foods notifies Wachovia Bank of Altered Payee and demands repayment.

Wachovia demands repayment from TCF Bank (bank of first deposit).

Facts

Wachovia Bank pursues TCF Bank for \$154,000; does not pay Schultz Foods.

Schultz Foods makes a claim under its policy; Cincinnati Insurance Co. pays Schultz Foods \$154,000.

Cincinnati Insurance Co. sues Wachovia Bank for \$154,000.

Facts

Wachovia had a "defense" against Schultz Foods and its insurance company: A Signed Deposit Agreement

Under UCC § 3-119, TCF Bank's attorneys, acting for Wachovia Bank, use Wachovia's "deposit agreement defense" against Cincinnati Insurance Co.

Resolution:

Wachovia Bank Wins!

This case demonstrates you can have a great relationship with your bank and still lose a lawsuit!

Schultz Food's had used Positive Pay, the check may not have paid, and there may not have been a loss! (Exception: Added Payees)

Preventing Altered Payee Names



Preventing

<u>Added</u> Payee Names



















Barcode contains:

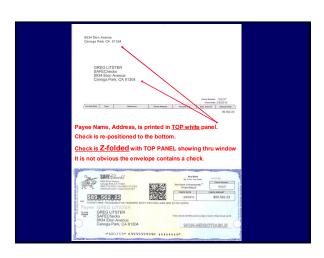
- 1. Drawer
- 2. Payee Name
- 3. Dollar Amount
- 4. Issue Date
- 5. Check Number
- 6. Account Number
- 7. Routing/Transit Number
- 8. X,Y coordinates on the check face of each data piece
- 9. Date and Time Check was printed
- 10. Laser Printer used
- 11. The employee that printed the check

Barcode is created by a Printer Driver

Printer driver can:

- 1. Accumulate check data for Positive Pay
- 2. Change Font size
- 3. Add <u>Barcode</u>, <u>Secure Name</u> & <u>Number</u> fonts
- 4. <u>Be configured to send</u> Pos Pay files to the bank <u>automatically</u>
- 5. Reposition Check Placement











Tight Internal Controls

- > Secure all check stock (lock and key)
- > Restrict employee access to check supply
- > Physical inventory of check supply regularly
- ➤ Reconcile accounts immediately (UCC: 30 days)
- > Secure facsimile signature plate (lock and key)
- > Never sign a check with a rubber stamp
- > Use a cloth ribbon when typing manual checks
- > Embezzlement
 - ➤ Separate financial duties



Uniform Commercial Code

% rdinary Care+

and

Contributory Negligence+

determine Banks and Customers degree of liability for fraud.

Ordinary Care (Bank)

- **Electronic Check Presentment**
- Check Truncation (Imaging)
- > Selective Check Inspection

Uniform Commercial Code

% reasonable commercial standards do not require the bank to examine the instrument if the failure to examine does not violate the bank prescribed procedures and the bank procedures do not vary unreasonably from general banking usage...+

Ordinary Care (Drawer)

%a.in the case of a person engaged in business means <u>observance of reasonable commercial standards</u>, prevailing in the area in which the person is located, and with respect to the business in which the person is engaged...+

Contributory Negligence

- Bank acts with ORDINARY CARE
- DRAWER fails to act with ORDINARY CARE (i.e. Drawer is negligent)
- If that negligence contributes substantially to the forgery...

BANK HAS NO LIABILITY!

Holder in Due Course

Web: FraudTips.net

Holder in Due Course

- An innocent party who accepts a check as payment for goods or services
- No evidence of alteration or forgery on face of the check, or knowledge of fraud by recipient
- > Statute of Limitations
 - "10 years from date of issue
 - "Three (3) years from date of return
- > A Holder in Due Course can sell his/her rights

Holder in Due Course

- ➤ Trumps Stop Payments
- ➤ Trumps Positive Pay

Trump (n.) To get the better of an adversary or competitor by using a crucial, often hidden resource.

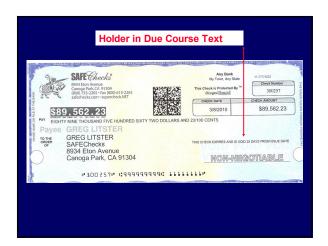
Holder in Due Course

Federal Appellate Court

Lawsuits

Holder in Due Course #1

- ➤ Robert Triffin v. Cigna Insurance
 - "Two year old check, payment stopped
 - "No "expiration date" printed on check
 - UCC rules: 3 years or 10 years
 - Print on check face: "This check expires and is void 25 days from issue date"
 - ✓ Don't re-issue check until first check expires



Someone who accepts an expired instrument

Has No Legal Standing!

as a Holder in Due Course

Holder in Due Course #2

- Robert Triffin v. Somerset Valley Bank and Hauser Contracting Company
 - "80 counterfeit checks on authentic-looking check stock (ADP payroll checks)
 - ***** \$25,000
 - "Hauser Contracting held liable in both Courts because checks looked authentic
 - ➤ Solution: Use <u>controlled</u>, high security check stock that cannot be purchased blank

Who Sells Blank, **Uncontrolled Checks?**

- Software Companies
- ➤ Bottom Line, Acom, Payformance, Create-a-Check, et. al.
- Deluxe
- > John Harland/Clarke American
- ➤ SafeGuard
- Superior Press
- > Standard Register
- Moore Wallace
- > American Solutions for Business
- ➤ Office Depot
- Small Print Brokers / Distributors

How to Obtain Controlled Checks?

Custom Manufacture with an ORIGINAL design and include at least 10 security features

or

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- > SAFEChecks (12 features)

Holder in Due Course #3

- Robert Triffin v. Pomerantz Staffing Services
 - "Pomerantz used high security checks with
 - "heat-sensitive ink on back, and
 - " specific warning banner about authenticating
 - "Positive Pay (all 18 checks < \$400)

Counterfeits looked authentic on face, but lacked heat-sensitive ink on back

"Triffin **LOST**; check security features won!

Check Fraud Scams

Check Fraud Scams

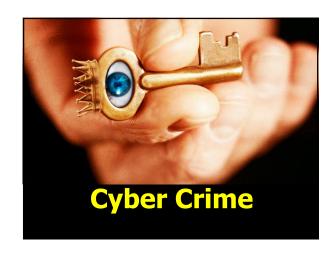
- "...you have won a large award...taxes must be prepaid on the award, but a check for a portion of the award will be mailed to you...."
- Someone buys something from you and pays with a check that exceeds the purchase price. You are instructed to deposit the check, keep what you are owed, plus \$100 % or your trouble, +and to wire the purchaser the rest of the money. Of course, the check is bad.

Check Fraud Scams

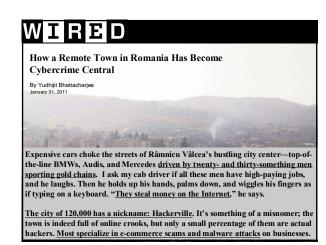
- Altered Names / Dollar Amounts
- Added Payees Names (beats Payee Positive Pay)
- Check Counterfeiting
- Check Washing
- Online Lottery Winners (Holder in Due Course)
- Bogus Cashier's Checks

ACH Fraud

- " Utilize ACH Filter or Block
- Select Return All+as your default choice for ACH Debit Filter
- Set maximum debit limit for all Approved Vendors
- "Be alert for small dollar (\$1) ACH debits/credits











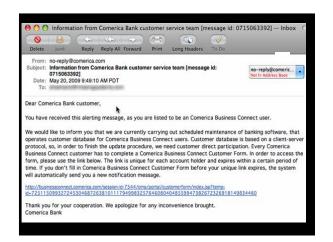












Lawsuit

Experi-Metal, Inc.

V.

Comerica Bank

"Phishing" Attack:

CFO responds with to email with his login

Lawsuit

Experi-Metal, Inc.

82 Wires, \$5,200,000

\$560,000 Loss

Company sued the bank.

Company sued the bank.

Who won the lawsuit?

Company sued the bank.

Who won the lawsuit?

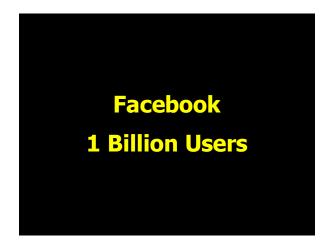
The Customer!

WHY did the Bank lose?

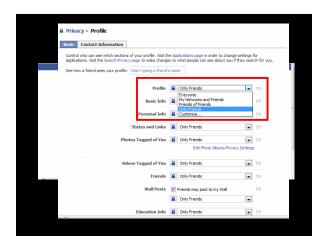
- Bank wired out funds <u>exceeding</u> Customer's
 Actual Account Balance (OD = \$5MM)

 (This programming error has been remedied!)

 (This programming error has been remedied!)
- 2. Five (5) other companies were hit that day
- 3. Company "won" lawsuit against Comerica, but
- 4. Was <u>not</u> awarded attorney fees (> \$250K)









"Vishing" —
Using the telephone to get
personal information, using real
names known to the victim.

New Types of Cyber Attacks



"Smishing" — Using a text message to get personal information.



Industry experts expect mobile threats to eventually surpass threats to PCs.

10% of mobile applications leak logins and passwords, 25% expose personally identifiable information (PII) and 40% communicate with third parties.

%Sybercrime: This Is War+ Report by JPMorganChase 3/2013

- Many downloadable applications lack any encryption, and many insecurely share information.
- 30 percent of apps have the ability to obtain a device location without the user's consent.
- 14.7 percent of apps request permissions that could lead to the initiation of phone calls without user knowledge.

Juniper Networks, 2011 Mobile Threats Report

Mobile web browsers also present threats. Browser-based attacks can be launched by simply visiting an infected site.

Juniper Networks, 2011 Mobile Threats Report

Solutions



Use a properly configured
FIREWALL,
which helps make your computer
invisible on the Internet.





Anti-Virus, Anti-Spyware Software Software to identify, neutralize or eliminate malicious code - Monitors behavior of all programs.

Online Banking

Require 2 different computers to move money.

- 1. Computers #1-99 to "originate"
- 2. Computer #100 to "release"

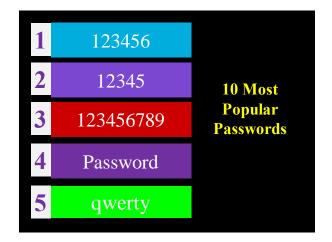
Use a Layered Approach for Wires & ACH

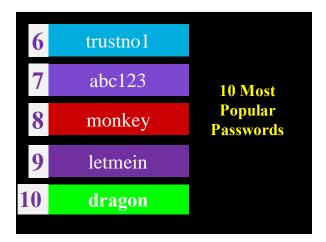
- " Dual Factor Authorization
 - " ("something you have (token), and something you know")
- " % ut of Band+Authentication
 - " (text msg from bank with password for that specific wire)
- " Tokens
- Transactional Alerts via
 - " Text
 - " E-mail
 - Voice call back (human confirmation)

Email Server Protection

(Better protection with more users)







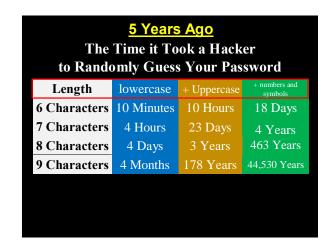
Cracking Passwords

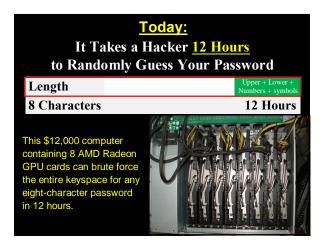
The most important single contribution to cracking came in 2009, when an attack against online games service RockYou.com exposed 32 million plaintext passwords used by its members to log in to their accounts. The passcodes were posted online. Overnight, the way hackers cracked passwords changed.

The RockYou.com list confirmed nearly all CAPITAL LETTERS come at the <u>beginning</u> of a password. Almost all NUMBERS and PUNCTUATION show up at the <u>end</u>.

It also revealed a strong tendency to use first names followed by years, such as Julia1984 or Christopher1965.

Passwords Posted on the Web Last Year 100,000,000+





Asd09871234zxcvvconradfcvg crp3adm3 xzlkjhyulogrdswaglitsxcvfdtermnbvFESS Muniondesxcbswanhkmnb.com

Asd2071300042 zxcv0713vcxz lkKatieJean jhyulogreglitster Mnbv greg@safechecks.com unionbank.com

zxcvbnmjklacapulco

www.logmein.com

qaswdc096524rfvfraves ginaRobinJohnson

fultonhjlk8934etonavecanogaparkca91304xcvcb
 info_SSAFEVVFGSsjkrobinzxcvbnmalisaelainesjklrobin_sklejk

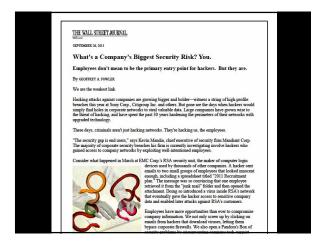
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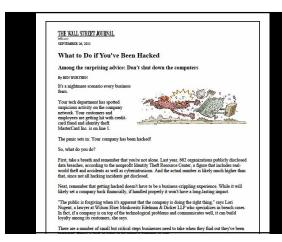
Asd09871234zxcvvconradfcvg crp3adm3
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Munlondesxcbswanhkmnb.com

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hjklj5449jkl;0114bnm,779 zxcvcrp3adm3usbank











Track Your Kids
Keystrokes





Track Your Kids' Keystrokes Spector Pro: Track your childs keystrokes, emails, MySpace, Facebook, IM, websites visited with Spector Pro (spectorsoft.com). eBlaster forwards incoming and outgoing emails to your email address.





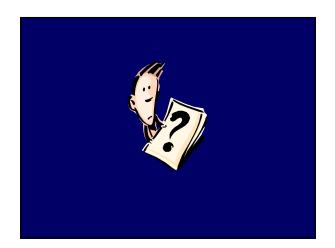






Please review **Resources**in Abagnale Fraud Bulletin

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