

Cyber security: What your treasury division should know

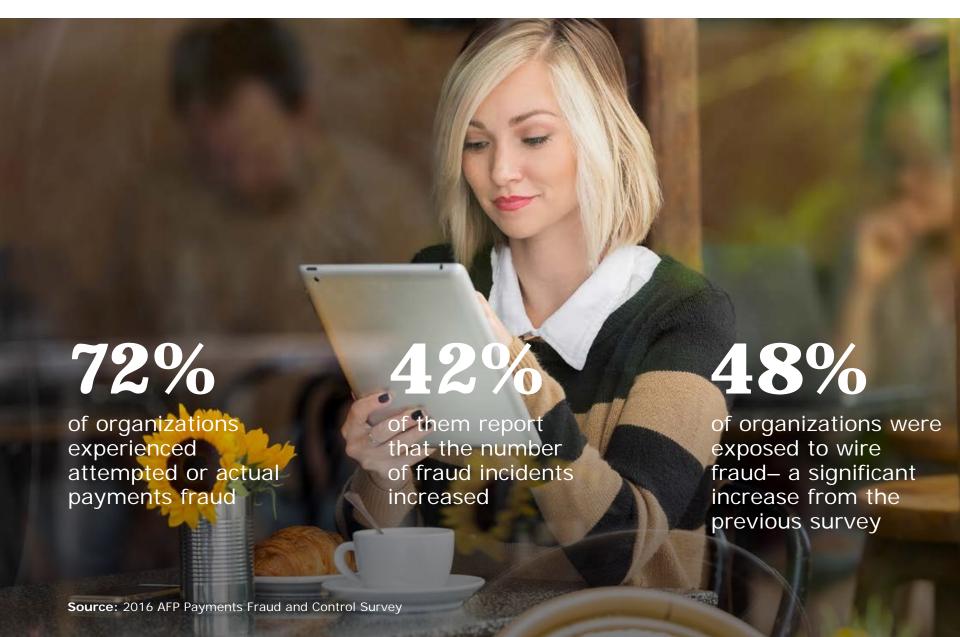
Together we'll go far



Agenda

- Fraud trends
- Online account takeover fraud
- Impostor fraud
- Insurance solutions
- Call to action

Remain vigilant in payment fraud

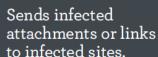


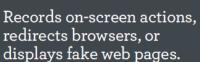
Online account takeover fraud

What is account takeover fraud?



Impersonates a trustworthy entity.





Moves funds from your account to theirs.

Social engineering strategies

Classic phishing

Email messages sent to large populations designed to obtain confidential information

Emails purport to be from trustworthy sources with which victims have established relationships



Vishing and smishing

Vishing is where fraudsters connect with their victims via phone

Smishing is when a fraudulent text message is sent to the victim

Spear-phishing

Targeted phishing attack directed at a small group of potential victims

Emails are focused, have a high degree of believability and a high open rate

Phishing successes explained

Cybercriminal excellence

Accurate logos, professionally written communications, personalization of content increase believability

Targets are more likely to click on the links and/or open attachments, which download malware

Social media explosion

Users are sharing an alarmingly amount of information through social media platforms

Provides criminals with the fodder necessary to construct personalized and believable messages

Credulous users

Users are the first line of defense, yet organizations do not have robust training programs to heighten users' sensitivity to phishing attempts

Bottom Line: Phishing attempts are becoming more challenging and more difficult to address

1 in 244

Email malware rate

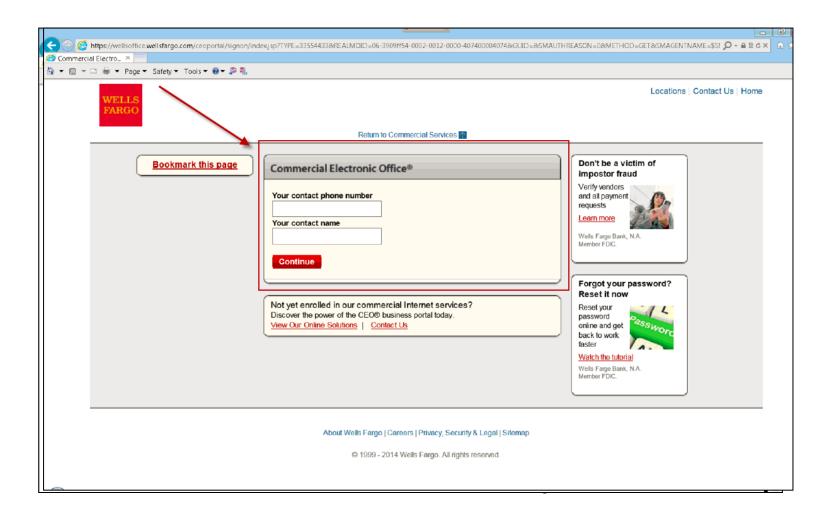
Malware improvements



Malware has evolved to where it can now:

- Detect a sandbox and will not execute its code until deemed 'safe'
- Remain dormant for an extended period in order to evade traditional anti-malware solutions
- Operate another malware that appears to be innocuous
- Require user interaction, such as clicking on a button in a dialog box, before it goes into action

Example of malware



Online account takeover fraud

How does Wells Fargo work to protect your business?

Protection



- Multi-layered approach
- Safeguarding credentials
- Product security
- Fraud protection services

- Advanced detection technology
- Unusual activity monitoring
- Transaction risk evaluation
- Industry partnerships/ law enforcement coordination

Detection



Best practices

Ways you can protect your business



Never give out your online banking credentials.



Don't click links, open any attachments, or install programs from unknown senders. Update antivirus programs.



Monitor accounts daily and use notification and alert services.



Implement dual custody and ensure both users are on different devices.



Be wary of token prompts that appear at sign-on. Disregard on-screen messages requesting immediate action.



...............

Generate transactions from a stand-alone PC with email and web browsing disabled.

Customer Testimonial Precision, Inc.

"We're fortunate it wasn't a lethal blow to our business. It could have been so much worse."

Impostor fraud

The fraudster

Poses as a person or entity you know and trust

Contacts you by email, phone, fax, or mail

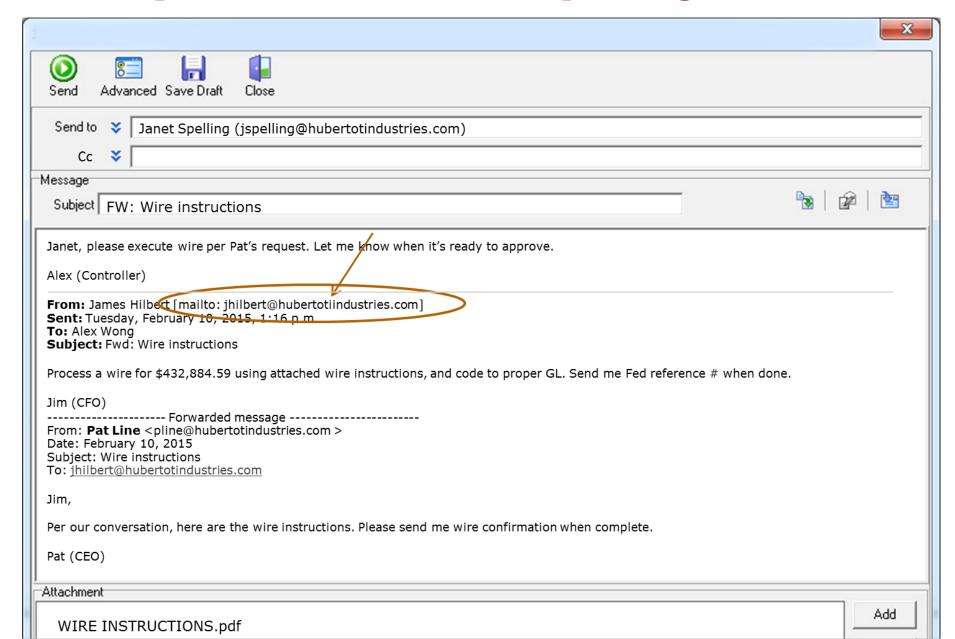
Requests a payment, submits an invoice, or asks to change vendor payment instructions



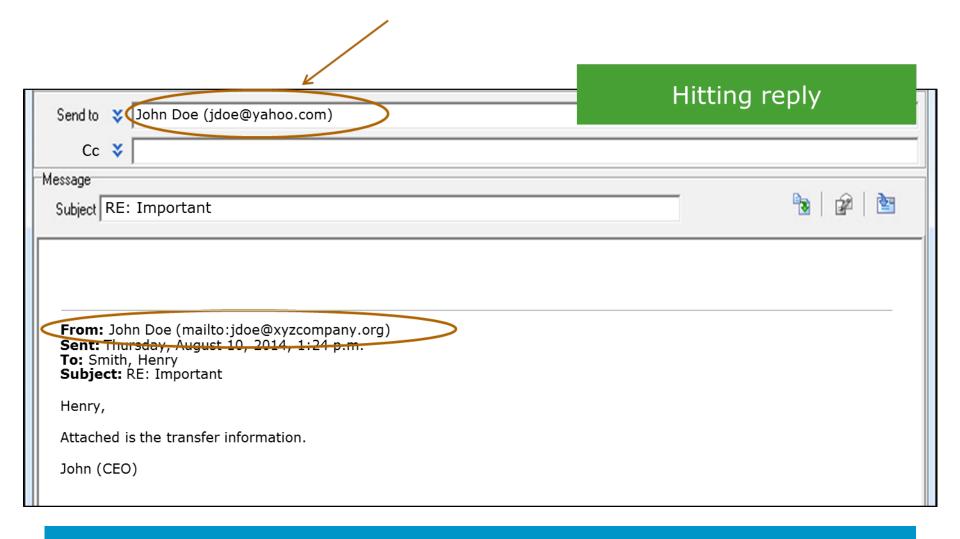
If you fall for the scam, any payments you send go to the fraudster — not where you intended.



Example of executive email spoofing



Checking for a spoofed email by hitting reply



Warning: Do not actually reply. You'd be replying to the fraudster.

Email hacking

The fraudster

- Takes over full access to the email account
- Studies email patterns, check calendars
- Sends emails from the user's account undetected
 - Will intercept a reply to a hacked email and continue to perpetrate the scheme



Impostor fraud is **different**

It's highly scalable — multiple companies attacked at once



It's not quickly identified — and it's hard to recover funds, especially if sent by wire

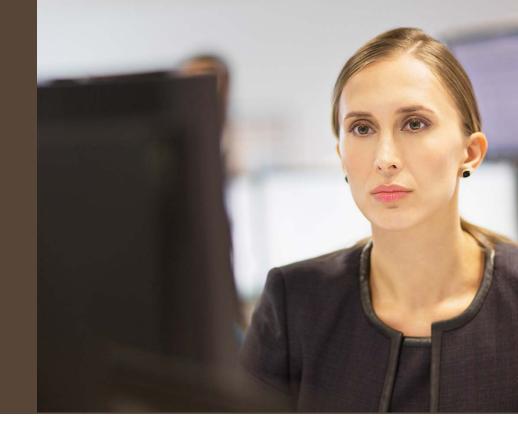


Fraudsters don't steal online banking credentials and make payments (like in account takeover fraud)



Instead, your authorized users make and authorize payments. Payments look normal to your bank.

And the biggest difference is ...

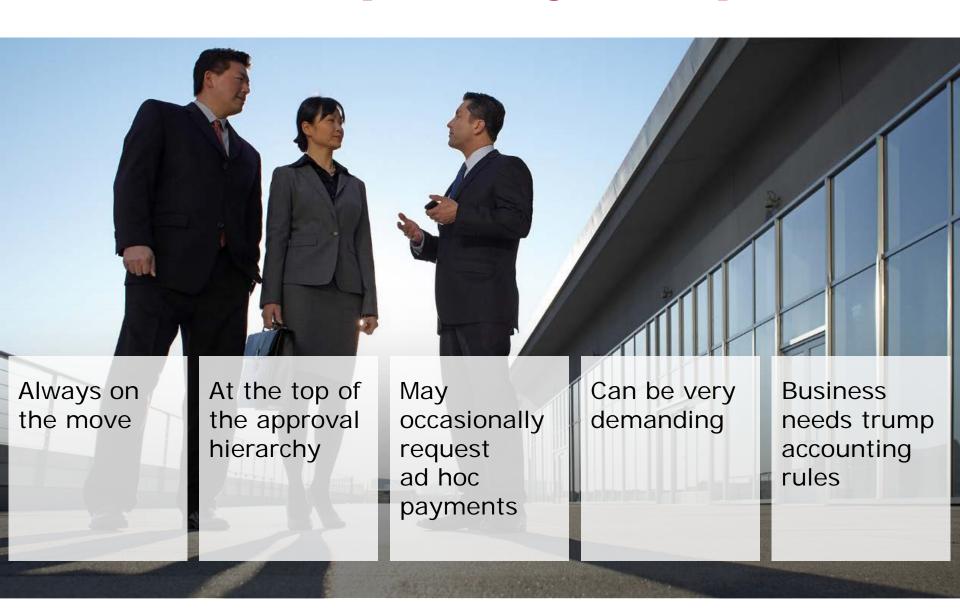


Fraudsters are willing and ready to interact with you. They anticipate you may question the request.

They're prepared to respond to your follow-up emails and phone calls.



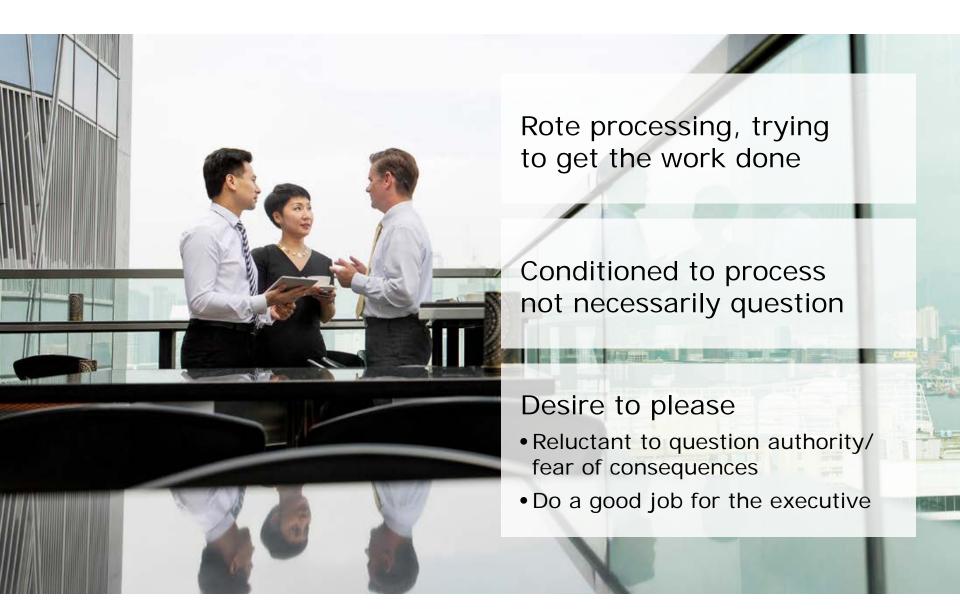
Executives make perfect targets to impersonate



Vendors also impersonated



Human (staff) behavior



Human (staff) behavior — continued



Common denominators

Payment is an **exception** from the norm

Payment is to a **new** beneficiary/bank account

Fraudster counts on request **not** being verified with trusted source

Impostor fraud red flags



Red flags

Request to remit payment to new/different bank account you've never sent money to before

Request to remit payment to new/different **country** you've never sent money to before

Request for secrecy around payment (confidential/top secret)

Switch from commercial beneficiary to individual beneficiary: XYZ Manufacturing vs. Jane Smith

Slightly blurred logo on vendor letterhead or invoice indicating item may have been altered

Impostor fraud red flags (continued)

Property Red flags

For email spoofing, subtle changes to company name in the email, such as: **ABCadditive.com** vs. **ABCadditive.com**

Change in email address from a company domain to a public domain (e.g., @yahoo.com and @gmail.com)

Writing style may be off: either more formal than usual or less formal than usual — e.g., Jonathan vs. Jon

Warning: If the email has been hacked, all email addresses will appear legitimate.





Authenticate all requests

- Verify electronic or unusual requests
- Verify by a channel other than that through which the request was received
- Use official contact information on file to verify; never use contact information provided in the request



Educate your executives and staff

- Alert management and supply chain personnel to the threat of vendor and executive impostor fraud
- Instruct all staff, especially AP staff, to question unusual payment requests received by email – even from executives

Alert vendors and partners



- Warn vendors that they are targets for fraud, too
- Tell vendors you no longer accept changes to bank account information by email
- Instruct your trading partners not to change their remittance information without verifying the request with you



Watch for red flags

- Pay close attention to the details of all payment requests
- If something doesn't seem right, it probably isn't



Protect your email account

 Never give your company email address or log-on credentials to anyone you don't know who contacts you by telephone, email, or text message



Use dual custody properly

- Pay close attention to the payment details
- Authenticate a request before initiating the payment and before approving the payment

Monitor your accounts daily



The sooner you spot a fraudulent transaction, the sooner you can start your recovery efforts and take steps to help ensure you don't become a victim again.

"We've put all the best practices in place...now what?"

Insurance Solutions

Insurance considerations

Am I already covered?

Unless your policy includes an affirmative coverage grant, the answer is "probably not". Targeted impostor fraud is a relatively new phenomena, and traditional policies are not written to cover this type of exposure.

How can I get coverage?

Coverage can usually be added to a Crime/Fidelity policy, which is designed to cover fraud and theft of funds.

Insurance coverage

- Carriers may use many different names to cover this exposure
- It is important to recognize nuances
 - Ensure coverage applies to impostors posing as internal contacts (CEO, CFO) as well as external contacts (vendors, clients)
 - Confirm that there is no "look back" provision allowing a carrier to deny coverage if any of the standard verification procedures were not followed

Impostor Fraud

Social Engineering Fraud

Spear Phishing

Payment Instruction Fraud

Fraudulent Inducement

The underwriting process



- Coverage will be offered with a sublimit, usually between \$50,000 and \$250,000
- Additional premium will usually apply typically about 10% of the Theft coverage premium
- Most carriers will require a short supplemental application to confirm internal controls (these can also be a useful tool to identify best practices!)
- If larger limits are needed, Insureds will generally need to access the London or Bermuda markets
 - Attached to a crime policy
 - Expensive
 - Minimum \$1M retention

Where do we go from here?

The insurance market place is continuing to evolve on this issue as frequency and severity both increase. Some London underwriters are considering offering a stand-alone product although the scope and cost of coverage are yet to be determined.

Currently, the most appropriate way to structure coverage for imposter fraud is by adding an affirmative coverage endorsement to a crime policy. However, cyber liability carriers are exploring adding the coverage to their policy based on the underlying network security breach.



What is a privacy breach / security breach?

Privacy breach

The theft, loss or unauthorized disclosure of personally identifiable non-public information (PII) or third party corporate confidential information that is in the care, custody or control of the organization or an agent or independent contractor that is handling, processing, sorting or transferring such information on behalf of the Organization.



Computer security breach:

- The inability of a third party, who is authorized to do so, to gain access to an organization's systems or services;
- The failure to prevent unauthorized access to an organization's computer systems that results in deletion, corruption or theft of data;
- A denial of service attack against an organization's internet sites or computer systems; or
- The failure to prevent transmission of malicious code from an organization's systems to a third party computers and/or systems.

Network security and privacy insurance

- Continue to see insurers grow their loss prevention and loss mitigation services for midsize companies
- Network security risk is not going away – everyone is waking up
- For any insurance carrier that has pulled capacity, or has been hesitant to enter, another has stepped in
- Most organizations looking to transfer the risk to an insurance product
- Cyber insurance market expected to reach \$5B in written premium by 2020



Network security and privacy GAP analysis

	Property	General Liability	Crime	K&R	E&O	Network Security & Privacy
1st Party Privacy / Network Risks						
Physical damage to data only		Х		Х		✓
Virus/hacker damage to data only		Х	Х	Х		✓
Denial of service (DOS) attack		Х	Х	Х		✓
Business interruption loss from security event		Х	Х	Х	Х	✓
Extortion or threat	Х	Х	Х	✓	Х	✓
Employee sabotage of data only	Х	Х		Х		✓
3 rd Party Privacy / Network Risks						
Theft/disclosure of private information	Х		Х	Х		✓
Confidential corporate information breach	Х		Х	Х		✓
Technology E&O	Х	Х	Х	Х	✓	Х
Media liability (electronic content)	Х		Х	Х		✓
Privacy breach expense and notification	Х	Х	Х	Х		✓
Damage to 3 rd party's data only	Х			Х		✓
Regulatory privacy defense / fines	Х	Х	Х	Х		✓
Virus/malicious code transmission	Х		Х	Х		✓

- No Coverage

Coverage

- Possible Coverage

Network security and privacy liability insurance

Combines:

Third party liability insurance

First party reimbursement insurance

First party business interruption and data asset loss.

Different names
depending on who
you talk to...
Cyber Risk,
Cyber Security,
Data Security,
Privacy Liability,
Security Liability,
Network Risk, etc.
They all essentially
refer to the same
thing.

Over 30+ markets with primary policy forms - which carriers will be around 5 years from now?

Insurance solutions

Third party liability coverage

Privacy liability

Network security

Media liability

Regulatory action* (sub-limit may apply)

First party reimbursement coverage

Privacy notification costs

Crisis management expenses

Credit monitoring costs

Forensic investigation

Notification Expenses, Credit Monitoring and other Crisis Management Expenses are generally offered on a sub-limited basis and varies by carrier.

Other first party reimbursement coverages

Cyber extortion

Business interruption

Data Restoration

Call to action

Help increase awareness of online and impostor fraud

As soon as possible, meet with your:

AP staff and internal partners. Any group could be an entry point for a fraudster.

Executives. Make them aware of the threat and ask them to support necessary changes to mitigate risk.

Peers. Contact them to help spread the word.

Insurance Broker. Contact them to discuss insurance options.

Take action now! You can't afford to wait or do nothing.

Share this presentation. Fraud education is beneficial for everyone.

If you suspect fraud

Immediately contact your client services officer and tell them you suspect fraud, or call:

1-800-AT-WELLS



If we suspect fraud



Calls to validate transaction activity must be taken seriously.

Validate the authenticity of the payment request – follow best practices.

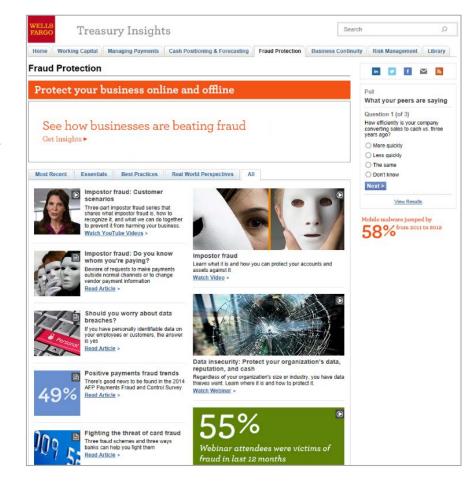
For more information on protecting your business online **and** offline:

Visit the Fraud Protection page on *Treasury Insights* <u>treasuryinsights.wellsfargotreasury.com</u>

For your questions and comments, please email us at TreasurySolutions@wellsfargo.com

Visit the Insurance Insights page:

https://wfis.wellsfargo.com/Pages/default.aspx



Thank you