

# A Fund Roundtable:

## Cyber-Hygiene Tips You Need to Adopt Today

### Presented By:

Michael Rothman, Esq.  
Linda Monaco, Esq.  
Robert Rohan, Esq.  
John St. Lawrence, Esq.



## October is National Cyber Security Awareness Month

Fund live programming:

- **Tues., Oct. 15 @ noon** – *Third Party Security Vetting for Law Firms*, presented by Ron Frechette of Goldsky Security
- **Tues., Oct. 29 @ noon** – *Computer Security in the Age of Computer Crime*, presented by The Fund's Darrell Marsh

Fund Website:

- [www.thefund.com/information-center/information-security.aspx](http://www.thefund.com/information-center/information-security.aspx)



## Topics of Discussion

- Litigation Exposure (Michael Rothman)
- Passwords (Linda Monaco)
- Website Management (Robert Rohan)
- Deterrence (Robert Rohan)
- Red Flags/ Servers/ Software (John St. Lawrence)
- Insurance Considerations (Michael Rothman)
- Wire Transfer (Linda Monaco)
- Staff Development (Robert Rohan)



# Litigation Exposure



## Litigation Exposure

- Consider investing in a Security Risk Assessment
  - But ensure that all office practices recommended by the SRA are followed
    - Same holds for adherence to your firm's Best Practices Manual
    - GoldSkySecurity.com
    - KnowBe4.com



## Litigation Exposure

- Avoid making statements on your website or social media about your firm's "security," "trust," "experience," etc.



## Litigation Exposure

- Understand the obligations imposed by FIPA, Sec. 501.171, F.S. (Florida Information Protection Act of 2014)
  - Required notice to affected persons for data breach
  - Move closed files containing private data off your server



## Litigation Exposure

- Did you obtain a signed Acknowledgement from the parties of your warning about wire fraud and your office practices?



## Litigation Exposure

- Are you taking commercially reasonable care
  - in controlling, securing and disbursing client funds?
  - in the manner by which you inform clients of the expected closing procedure, such as when and how to wire closing funds?
  - in safekeeping client NPI?



## Litigation Exposure

- Does your firm have a written Incident Response Policy to identify, report and cure any breach of data or loss of funds via wire transfer?
  - Know who to call! Your bank's Chief of Security – not the branch manager or your account manager



# Passwords



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## Passwords – Facts

- Most common passwords: Password or 123456
  - Easy to remember
- Easy to hack
  - Easy passwords – 111111
  - Passwords that relate to your life – Monaco1982
  - Posted passwords are available to everyone
  - Identical passwords
- Hard passwords hard to remember
- Passwords you cannot remember are useless



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## Passwords – Unique to each site

- If your common password is discovered
  - Will have access to all accounts which use that password

## Passwords – Change Often . . . or Not

- Old rule – change often
  - Led to issues, writing & posting, easy, re-used, month & date
- New rule – have stronger passwords & less changes
  - More compliance
  - Long passwords are strong passwords



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## Passwords – Use a Strong Password

- 12 characters minimum – the longer the better
- Mix it up – letters, numbers, symbols, uppercase, lowercase
- Don't use dictionary word or combination

### Too Simple

H0use

Cat in the Hat

My beautiful red house

### Better

BigHouse\$123

Correct horse battery staple

Seashell glaring molasses invisible

- [www.Diceware.com](http://www.Diceware.com) provides list of words
  - Roll your dice and create your passphrase



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## Password Manager

- Encrypted vault for login credentials
  - May also save
    - Notes
    - Insurance cards
    - Credit card information
- Issue security alerts
- Generate passwords
- Streamlines logins
- Break bad habits
  - Unique passwords
  - Change passwords



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## Password Managers

- LastPass
- Dashlane
- 1Password
- Keeper
- Sticky password
- Intel's True Key
- RoboForm
- Iolo Technologies
- EveryKey
- My PassLock

**Remember there is NO FREE LUNCH!**



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## Password Managers

- Demonstration

**Remember there is NO FREE LUNCH!**



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## Password Generator

- Random password generators
- Random may not be random
  - Based on an algorithm
  - Better if based on a random factor – key strokes
- Long passwords are strong passwords

**Remember there is NO FREE LUNCH!**



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## Password Multipart Authentication Your Best Friend

- Process – How to know it's really you
- Five common authentication factors
  - 1 Something you know
    - Password, address, other names, first car, etc.
  - 2 Something you have
    - Site sends a code or token which expires within a short time
  - 3 Something you are
    - Fingerprint, retina, iris, voice, fact, etc.
  - 4 Somewhere you are
    - IP address – it knows your computer
  - 5 Something you do
    - Gestures or touches



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## Passwords – Tips

- **LONG PASSWORDS ARE STRONG PASSWORDS**
- Use unique password for each site
- Use password manager
- Change your password regularly, or
  - Indication that you have been hacked
- Use multi-factor authentication
  - Just turn it ON
- Don't use obvious personal information
- Don't re-use passwords
- Don't share your passwords – with ANYONE
  - Don't post your passwords



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# Website Management

A valuable tool for promoting your business should not be a resource mined by bad actors



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## Website Management

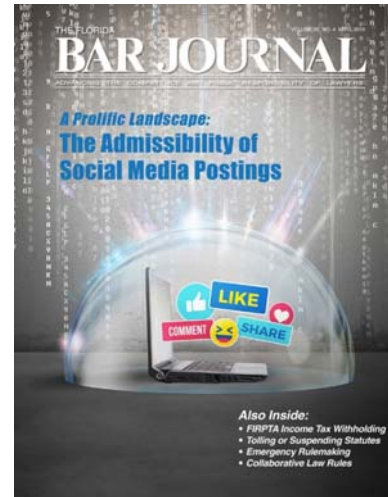
- Restrict company website content
  - Job descriptions
  - Internal phone directory



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## Website Management

- Restrict company website content
  - Florida Bar
    - Quick Reference Checklist – Websites
    - Required Content (Rule 4-7.12)
    - Presumptively Valid Content (Rule 4-7.16)



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## Website Management

- Restrict social media content
  - Personal v. business web pages
  - TMI (too much information)
    - Vacations
    - Business travel
    - Out of office details



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# Deterrence

Shortcuts to accessibility create opportunities for good and bad alike

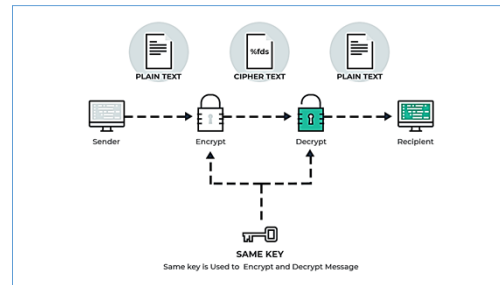
## Deterrence

- Multi-factor authentication
  - a security system that requires more than one method of authentication from independent categories of credentials to verify the user's identity for a login or other transaction



## Deterrence

- Encryption
  - the process of converting sensitive data or information into unintelligible data



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## Red Flags / Server / Software



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## Red Flags

### “Phishing”

- Email seeks access to system by enticing user to “click” attachment or link to malicious site
- Now sophisticated; targeted to real estate professionals
- Forged messages appear to be from legitimate, real estate-related sources
  - “DocuSign”
  - “Dropbox”
  - “Real” underwriters, banks, title companies
  - Letterhead/signature blocks of actual parties reproduced
- Once “clicked,” malware infects system; also “SPAMs” user contact list
- Once system infected, intruder can read/alter/redirect messages to defraud parties



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## Red Flags

- Spoofed email addresses
  - Ex) [rexrealtor@rexyourhome.com](mailto:rexrealtor@rexyourhome.com) becomes
    - [rexrealtor1a@rexyourhome.com](mailto:rexrealtor1a@rexyourhome.com)
    - [rexrealtor@rexy0urhome.com](mailto:rexrealtor@rexy0urhome.com)

- Spoofed domain addresses
  - Ex) upper-case domains
    - [rexrealtor@REXYOURHOME.COM](mailto:rexrealtor@REXYOURHOME.COM)



- **WARNING:** Attacks can also come from a genuine email address if sender compromised
- Best Practice – Never open an attachment or link from an unverified source



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### Preliminary CD and Contract

Kathy Hale <julia.beems@ucdenver.edu>

Sent: Thu 12/8/2016 8:57 AM

To: Renee Realtor, Tom Title Agent

Message: Preliminary CD.htm (12 KB)

Good Morning,

Attached is the initial CD for my client (based on preliminary fees that you sent over). Can you please advise on revised/added fees (tax prorations, HOA dues, etc)?

Preliminary CD and Contract is enclosed via encrypted secure OUTLOOK PDF format

Kathy Hale  
Assistant  
John E. Robinson  
Key Financial, Inc.  
161 Belle Forest Circle  
Nashville, TN 37221  
323-892-5021

From: Katie Bennett <kbennett@lawyersadvantages.com> Sent: Mon 3/5/2018 10:47 AM  
To: John St. Lawrence  
Cc:  
Subject: Deed\*\*Title Payoff Amount Update Needed\*\*69 Union Street  
Message: SCAN1606\_000.pdf.htm (14 KB)

Hello,

Attached are the Statements, Deed, Title Commitment, and Payoff for 69 Union Street – scheduled to close on Monday, 3/9, at 4PM at Unity Real Estate. We will send the balance of the Real Estate Closing Documents upon completion.

Please let us know if you have any questions or need anything additional.

Have an Excellent day!

**Katie Bennett** | Settlement Pre-Processor | Lawyers Advantage Title Group

Phone: 410-480-2890 | Fax: 410-480-1575

8000 Main Street, Ellicott City, MD 21043

[www.lawyersadvantages.com](http://www.lawyersadvantages.com)

**\*WIRE FRAUD TREND ALERT\*** We have seen an increase in fraudulent wire instructions received via email. Protect yourself by always verbally confirming wire instructions with your beneficiary directly on a substantiated phone number before wiring.

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From: \*Dropbox\* <svp@a-law.com>  
To: no-reply@dropboxmail.co  
Cc:  
Subject: New Document "Distribution" - (Via \*Dropbox\*)



Hi there,

A new Dropbox document titled "Distribution" has just been shared with you!

[View Shared Document](#)

"Please sign and return"

Dropbox also lets you easily share docs and photos, and collaborate with friends.

Thanks!  
- The Dropbox Team

Want to stop getting invites from Dropbox? [Unsubscribe](#)  
Dropbox, Inc., PO Box 77767, San Francisco, CA 94107

© 2018 Dropbox

If there are problems with how this message is displayed, click here to view it in a web browser.

From: Sadowski, Franciszka <SADCF002@hartford.gov> Sent: Wed 3/28/2018 5:08 PM  
To: John St. Lawrence  
Cc:  
Subject: New Zix secure email message

**New Zix secure email message from Hartford Finance**

[Open Message](#)

To view the secure message, click Open Message.

Recipient - [jst.lawrence@thefund.com](mailto:jst.lawrence@thefund.com)

The secure message expires on Apr 08, 2018 @ 02:56 PM (PST).

Do not reply to this notification message; this message was auto-generated by the sender's security system. To reply to the sender, click Open Message.

If clicking Open Message does not work, copy and paste the link below into your Internet browser address bar.

<https://web1.zixmail.net/s/3e3r3r4?cdvdyds=vsyvy>

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## Red Flags

Pressure Tactics – Beware manufactured urgency

- Can be a tactic to short-circuit critical thinking
- Beware sudden changes in business practices
  - Ex) Business contact suddenly asks to be contacted at personal email address
- “Emergency” phone calls/email
  - Fraudsters monitor social media for information on business travel; vacations
  - May strike when critical decision makers out of the office
  - Be wary of attacks on Fridays or near holidays
  - Now possible to “deep fake” voices through software



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## Server Security

- Use a firewall
  - Blocks unauthorized network traffic
  - Blocks unauthorized software downloads
- Limit privileged and admin-level network access to those who need it
- Limit file, directory, and network permissions to appropriate users



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## Server Security

- Utilize lengthy passwords
  - Time to crack with “brute force” software:
    - M0nK3Y 1 hour
    - 14monkeysweathats 800,309,871 millennia
- Consider multi-factor authentication process for log-in
- Consider backing up data offsite
  - Ransomware can infect backups as well
  - Backup should not be connected directly to network
  - Encrypted tapes or disks can be stored remotely



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## Software Security

- Use your own domain for email
- Use antivirus/antispyware software and keep it up to date
- Consider using software to filter content of inbound and outbound email
  - If no international business, why accept email from outside U.S.?
  - Block SSNs and wire instructions from outgoing messages
- Check/lock Outlook settings so email cannot be auto-forwarded



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## Antivirus and Spam Filtering Software

(no Fund endorsement expressed or implied)

- Antivirus/Antispyware

- Bitdefender
- McAfee Total Protection
- Webroot
- Norton 360
- Kaspersky
- F-Secure



- Spam filtering (in/outbound)

- SpamTitan
- Vircom
- Spambrella
- Cyren
- Mimecast
- AppRiver



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# Insurance Considerations



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## Insurance Considerations

- What covers what?
  - Errors & Omissions covers your acts of negligence
  - Cyber covers ransomware, data breaches
  - Crime covers third party theft (traditionally, hacking)
    - “Funds transfer fraud” = unauthorized instruction to wire out
    - A “Social Engineering Fraud Endorsement” to Crime, Cyber or E&O, which might cover BEC, is getting more expensive, harder to find, with lower sub-limits (now typically \$100k - \$250k)
    - TIP = rely on experienced insurance broker who can reduce premiums by bundling policies



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## Insurance Considerations

- Identify the policies that cover the type of wire fraud seen in real estate
- Review whether the limits of coverage for that exposure is adequate
- Review the claim triggers under which a loss will be covered by each policy
- Coordinate the various policies so that it is clear what will happen if a claim arises



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## Insurance Considerations

- Ask what does the insurance policy include? Does it have a SEF endorsement?
- What are the applicable limits? Check on sub-limits and separate retention amounts for business email compromise
- Ask if a social engineering endorsement can be added to an E&O policy at time of renewal



## Insurance Considerations

- Negotiate Exclusions
- You don't get if you don't ask!
  - Call Back v. No Call Back



## Insurance Considerations

- Consider using third party vendors such as;
  - CertifID ([www.certified.com](http://www.certified.com))
  - Vialok ([www.vialok.com](http://www.vialok.com))
- These companies offer upwards of \$1m of insurance against a misappropriated wire under certain circumstances



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# Wire Transfer



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## Wire Transfer – Facts

- Wire transfer fraud in US Real Estate only – 2018 statistics
  - \$149,457,144.00 in 2018
  - \$12,454,759.50 per month!
  - \$409,471.63 EVERY DAY! And growing
  - 9,600 victims in 2017
- FBI – labeled the scams as “business email compromise” or BEC
- Fraudsters create urgency – MUST BE DONE NOW!!!
- 2018 - Florida national ranking for BEC fraud
  - Number of victims – 3rd
  - Amount of funds lost – 4th



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## Wire Transfer

- Warn, warn, warn clients; then warn again
  - Websites
  - Communications – emails etc.
  - Send separate notice to clients & real estate agents
- Call for verification – let client know ahead of time
- Verify account holder information with receiving bank prior to initiating the wire transfer!



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## Wire Transfers – Warning Verbiage

- Be aware! Online banking fraud is on the rise. If you receive an email containing WIRE TRANSFER INSTRUCTIONS call us immediately to verify the information prior to sending funds.
- Due to increased fraud, buyers, sellers and lenders should confirm all wiring instructions by phone directly with our office before transferring funds.
- WARNING! WIRE FRAUD ADVISORY: Wire fraud and email hacking/phishing attacks are on the increase! If you have an escrow or closing transaction with us and you receive an email containing Wire Transfer Instructions, DO NOT RESPOND TO THE EMAIL! Instead, call your escrow officer/closer immediately, using previously known contact information and NOT information provided in the email, to verify the information prior to sending funds.

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## Wire Transfers – Use Outgoing Wire Checklist

ALTA Information Security Committee  
Outgoing Wire Preparation Checklist  
V.2.0 08-19-2019

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### ALTA Outgoing Wire Preparation Checklist

Visit the ALTA Website: <https://www.alta.org/business-tools/information-security.cfm>

**Date:** \_\_\_\_\_

**File Number:** \_\_\_\_\_

**Company Name/Location:** \_\_\_\_\_

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## Wire Transfers – Use Outgoing Wire Checklist

- Review the source of wiring instructions
  - Originally
  - Where they changes, if so what was the verification of the change
- Verify instruction received
  - How sent
  - When sent – how long to send out – each bank is different – may take a while to confirm
  - Call trusted number to ensure receipt
    - Read instructions to sender to confirm accuracy
  - List wire creator & authorizer
- Verify delivery of wired funds
  - Call to verify receipt



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## Wire Transfers – Best Laid Plans of Mice & Men

- No matter how many warning or how careful you are – something will go wrong
- Review insurance to ensure proper coverage
  - Losses from wire fraud
    - Email is hacks and false information is sent out
    - Fraudster obtains information and uses it to defraud a party – information may have come from another party in the transaction
- Have a plan – TIME IS OF THE ESSENCE



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## Wire Transfers – ALTA Rapid Response Plan

- Alert company management & internal wire fraud response team
- Report to sending & receiving banks
- Report to law enforcement
- Call sending bank to confirm recall request has been processed
- Inform parties in the transaction – using known numbers
- Check with your plan to see if you need to secure internally
- Consider contacting insurance carrier(s)
- If wired out of the US, hire attorney in that country to help recovery
  - The Fund does not allow foreign wire transfers
- Document your response
- File complaint with FBI

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## Wire Transfers TIPS

1. Call, don't email wire instructions
  - If you receive email instructions – do not use the number in the email to verify the instructions – read back instructions for accuracy
2. Use secure portals for communications
3. Verify all wire transfers instructions and portal invitations
  - Known numbers
4. Be suspicious
  - Be wary of email requesting changes in information
5. Forward, don't reply
  - If email came from look-a-like address it will then go to correct mail address

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## Wire Transfers TIPS

### 6. Confirm everything

- Have bank confirm the name and account prior to sending the wire
- Re-read instructions the same as meets and bounds legal description

### 7. Verify that the funds transferred immediately

### 8. Confirm receipt of wires

### 9. Sender of wire to initiate phone calls verifying information

### 10. Warn all parties of BEC and wire fraud

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# Staff Development

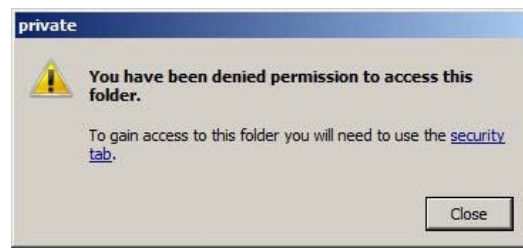
The weakest link in cyber defense is  
the human factor



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## Staff Development

- Employee access to files, programs or websites
  - Office policy manual
  - Physical restriction



## Staff Development

- eMail Best Practices
  - “Forward” not “Reply” to business eMail
  - Unencrypted eMail content
  - Hot links and downloads



## Staff Development



- Encourage third-party product research and study
  - Identity and account credential verification



- Encryption service providers
- Free cyber webinars



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## Staff Development

- Conduct phishing tests



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## Cyber-Security Awareness Month



**KEEP  
CALM  
AND  
THANKS  
FOR  
WATCHING**

keep-calm.net

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