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Audit. Tax. Consulting.
Wealth Management.

Walking the Tightrope of Cybersecurity Risk Management



Presenter

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Audit. Tax. Consulting.
Wealth Management.



Agenda

Top cyber trends

Cybersecurity focus areas for executives

Key takeaways





Recent Incidents



72%

of businesses worldwide were affected by ransomware as of 2023.
Source: Statista



8 out of 10

Organizations had at least one individual who fell victim to a phishing attempt by CISA Assessment teams. *Source: CISA*

KnowBe4 How a North Korean Fake IT Worker Tried to Infiltrate Us



Ransomware trends

Intelligence gathering

Ransomware crime groups gather intelligence on intended victims, like studying financial statements for an organization's financial position and using the information to scale ransom demands.

Double Extortion

Gain persistence in network to steal data before encrypting and to potentially continue to have a foothold after any recovery

Attacks on cloud service providers

Ransomware writers are now targeting cloud service providers with network file encryption attacks as a way to hold hostage the maximum number of customers possible.



Financial Institution Ransomware and Data Theft

- Only 1 in 10 attacks were stopped before encryption took place.
 - Root cause - Exploited vulnerabilities (40%), emails (33%), and compromised credentials (23%) were the three most common entry points for significant ransomware attacks in the financial services sector.
 - 43% of financial services organizations paid the ransom to recover their encrypted data.
-
- Know which of your vendors who will assist with ransomware incidents
 - Train teammates and test ransomware scenarios

Source: Sophos News



Common Wire Fraud Attacks

Unexpected Request

Last-Minute Changes to Wire Instructions

Bogus “Problems” on Account Issues

Vendor Account Changes



Social Engineering – Video Call Spoofing



How to Clone Your Voice with AI Voice Cloning?

You are now only 3 steps away from cloning any voice and letting them say anything you want.



Open Vidnoz AI Voice Cloning.

Record/Upload Now



Record or upload speaking audio to clone voice.



Preview or download your cloned audio.

Please record or upload your sound file:



Click to start recording
1–5 mins

Or



Click to upload an audio file
mp3/wav/aac, < 200 MB

Cancel

Next

Generate your exclusive voice



Only \$9.99

Upload an audio file as a voice sample to create your exclusive voice with your tone.





New Twist on Common Wire Fraud Attacks

Unexpected Request

Last-Minute Changes to Wire Instructions

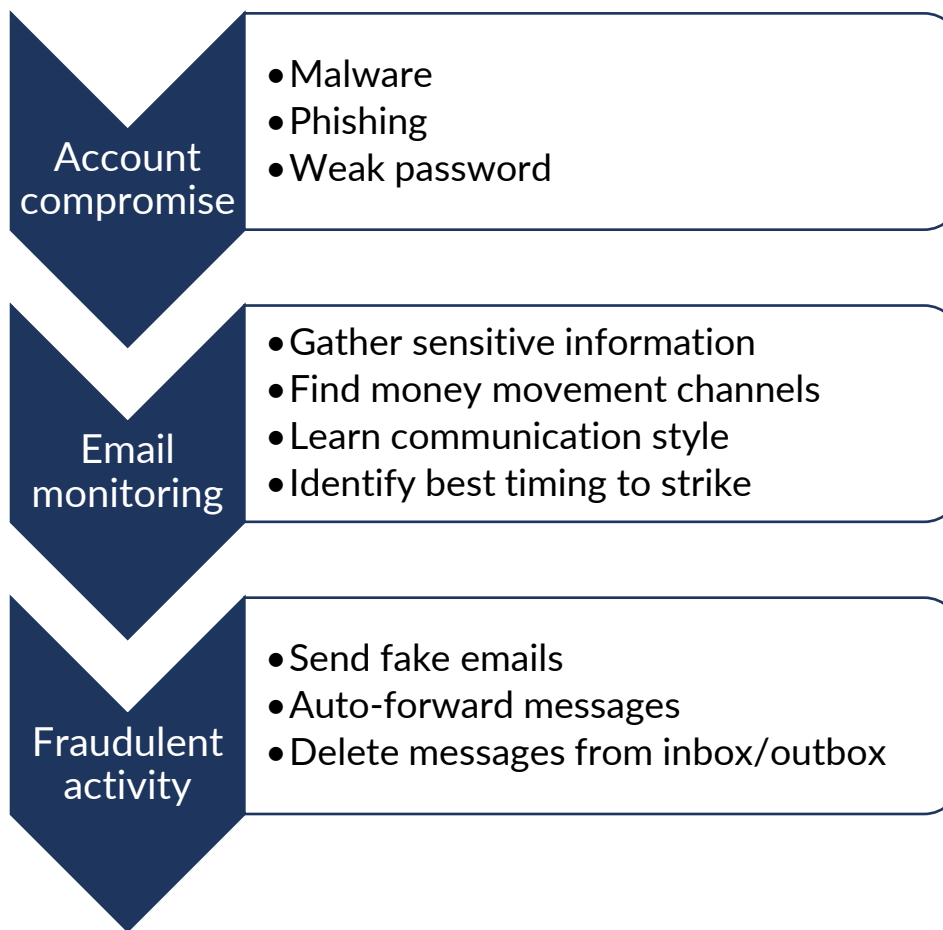
Bogus “Problems” on Account Issues

Vendor Account Changes





Business Email Compromise (BEC)





How secret are answers to security questions?

Security questions

What is your mother's middle name? ▼

Jillian

What is your oldest sibling's middle name? ▼

Stephanie

What was the name of the first school you attended? ▼

Oakbrook Montessori

Risk-based authentication

Out of wallet

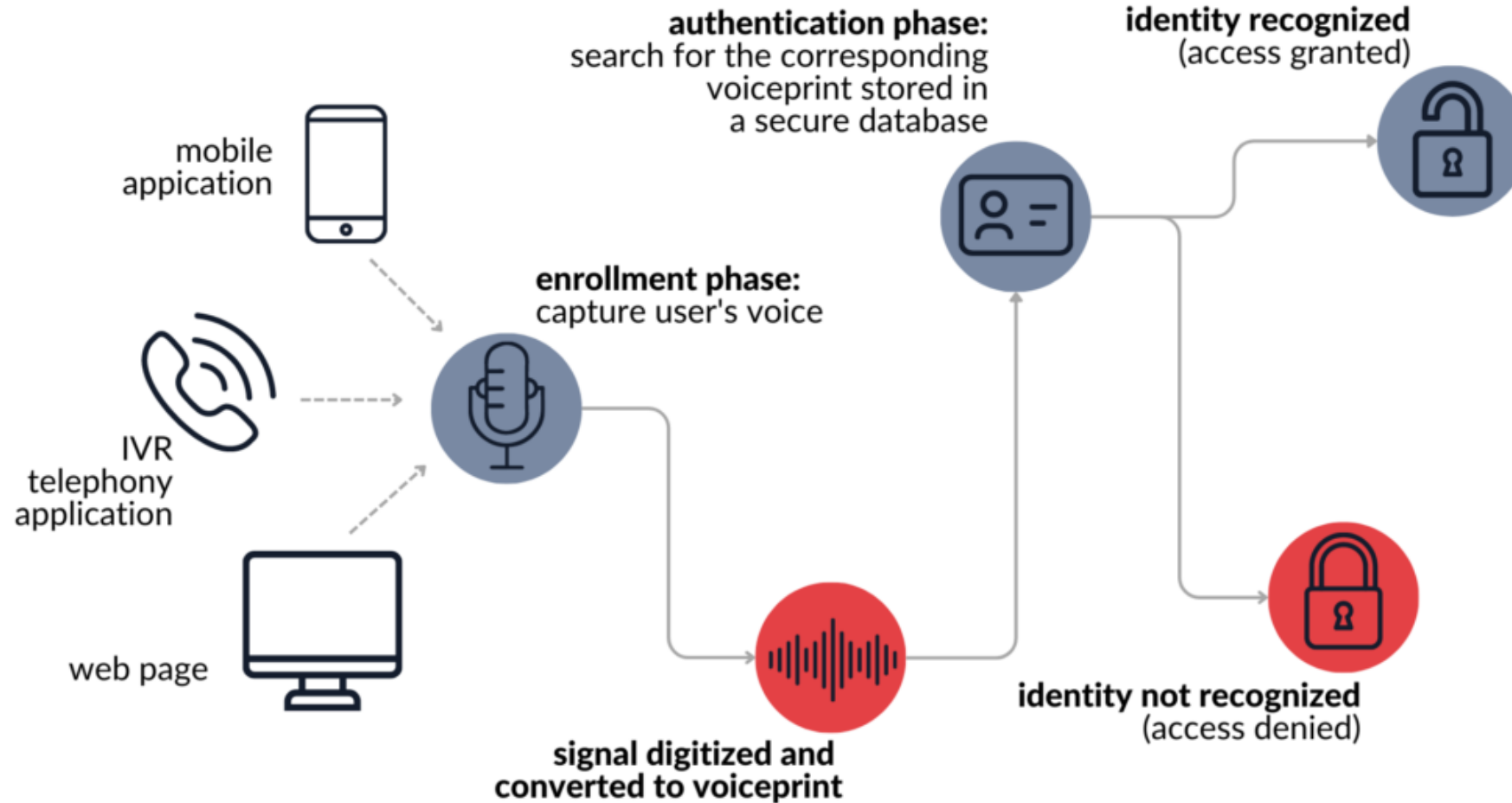
Out-of-band authentication

Alerts on failed attempts





Voice Biometrics



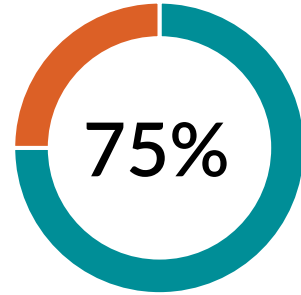


Employee Focused Attacks

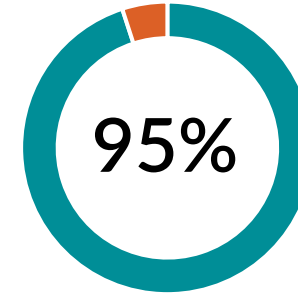




Employee Based Incidents



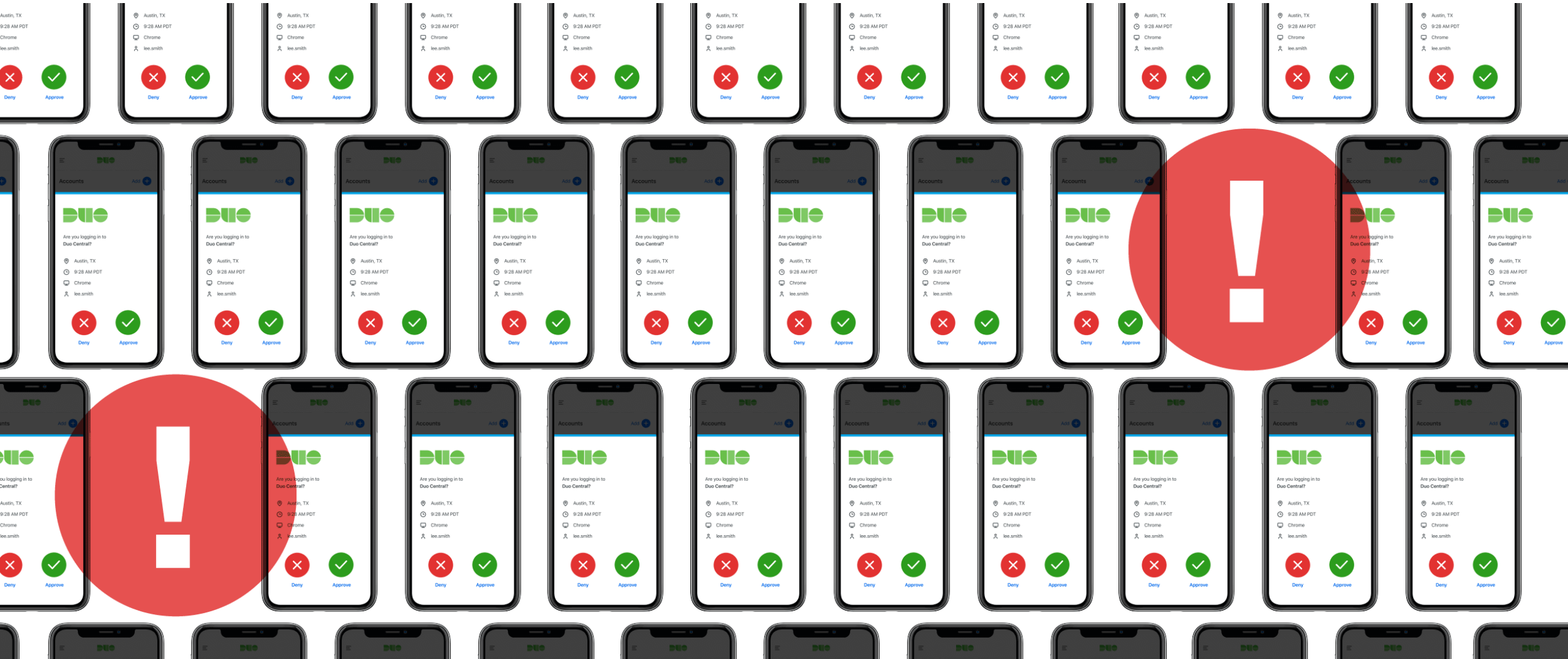
Security breaches
due to human error



Source: Deltalogix




Social Engineering – Multifactor Fatigue





Phishing Text/Email Targeting New Hires

 12,426 followers
1w • 

Help us welcome [Erica Campbell](#) to our team!

We are so excited to introduce you to Erica! She will be helping our Executive Recruiters reach new heights by helping them find the best talent in the industries we serve. Her background will bring next-level expertise to our firm and we cannot wait to see it all unfold.

[+ Follow](#)

Hey Laura, do you have a minute?
P.S: I am in a meeting and can not take phone calls.

Roy Schwartz

Hey Laura, do you have a minute?
P.S: I am in a meeting and can not take phone calls.

Roy Schwartz

Hey Laura, do you have a minute?
P.S: I am in a meeting and can not take phone calls.

Roy Schwartz



Social Engineering Key Controls

Policy

Training

Testing

Reporting/Responding



CATCH THE GOLDEN PHISH



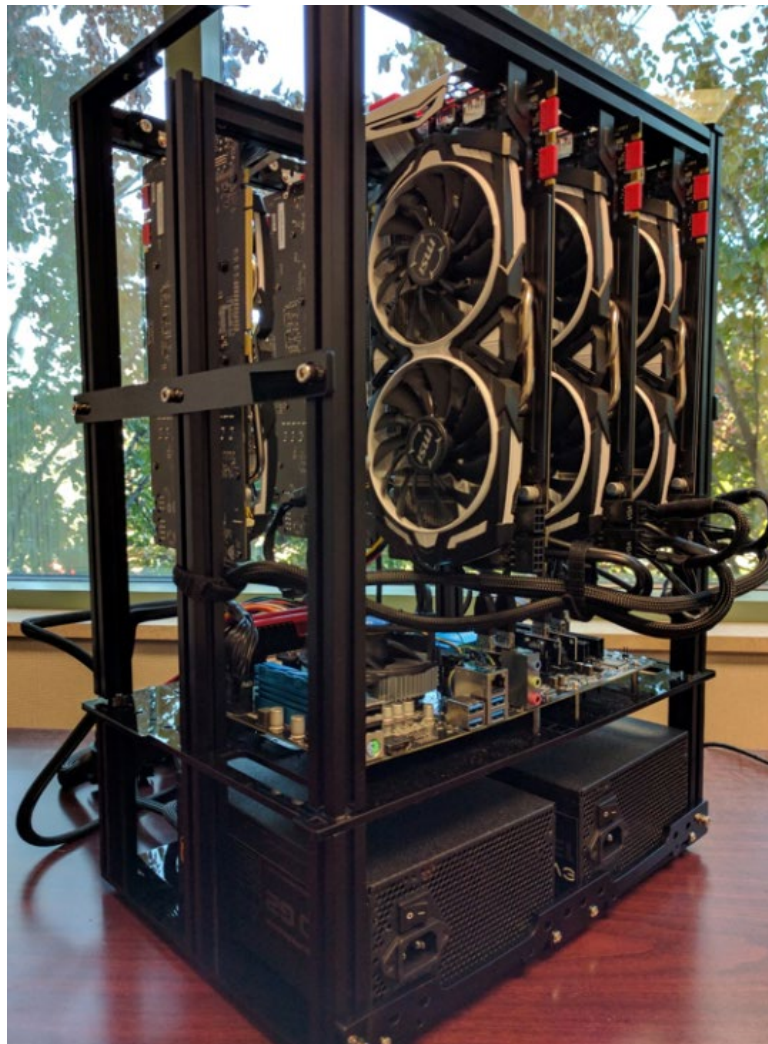


Password Compromises

Password re-use – compromised vendors/websites

Weak passwords

Password managers



PAT

Password Assessment Tool

Password Analysis

[+] 70 of 444 (15.8%) hashes were cracked.

[+] Results:

Top 10 base words

welcome = 27 (38.57%)

= 2 (2.86%)

halloween = 2 (2.86%)

swamy = 1 (1.43%)

zaq1zaq!zaq = 1 (1.43%)

happybirthday = 1 (1.43%)

robinannette = 1 (1.43%)

y0u@r3mysunshin = 1 (1.43%)

nightmare = 1 (1.43%)

snickers = 1 (1.43%)

Password length (length ordered)

12 = 1 (1.43%)

13 = 27 (38.57%)

14 = 17 (24.29%)

15 = 5 (7.14%)

16 = 12 (17.14%)

17 = 4 (5.71%)

18 = 2 (2.86%)

20 = 2 (2.86%)

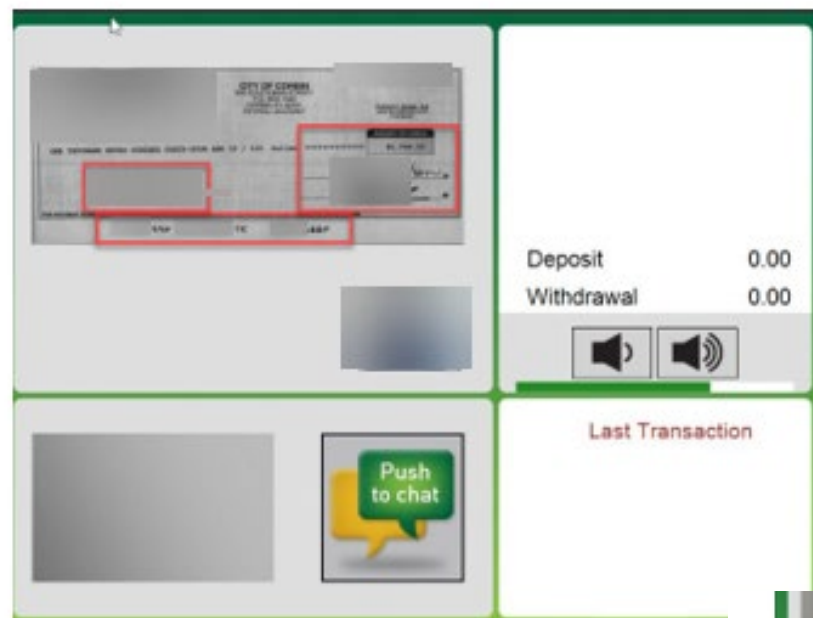




Technology Focused Attacks

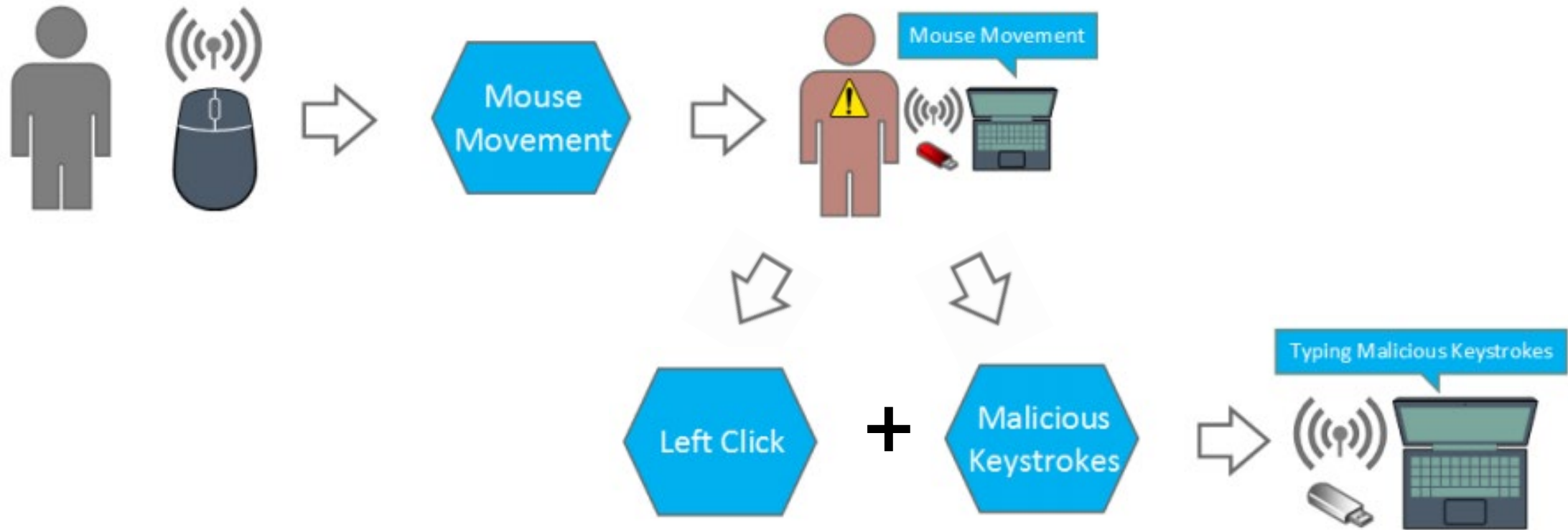


New Device Vulnerabilities – ITM's





New Device Vulnerabilities – Wireless Mice





Microsoft 365

Information Worker Plans												Frontline Worker Plans					
Microsoft 365				Office 365			Enterprise Mobility + Security		Windows 11			Microsoft 365					Office 365
E3	E5	E5 Security ¹	E5 Compliance ¹	E1	E3	E5	E3	E5	Pro (for reference)	Enterprise E3	Enterprise E5	F1	F3	F5 Security ²	F5 Compliance ²	F5 Sec+Comp ²	F3 ¹
¹ Requires Microsoft 365 E3 (or Office 365 E3 and Enterprise Mobility + Security E3).												² Requires Microsoft 365 F1/F3 (or Office 365 F3 and Enterprise Mobility + Security E3). ³ Not available for new customer purchases in Volume Licensing or Web Direct channels.					

Microsoft 365 apps

Desktop client apps ¹	•	•			•	•											
Microsoft 365 for mobile	•	•		•	•	•						Read only	• ²				• ²
Install apps on up to 5 PCs/Mac + 5 tablets + 5 smartphones	•	•		• ³	•	•							• ³				• ³
Microsoft 365 for the web	•	•		•	•	•						Read only	•				•
Visio for the web	•	•		•	•	•						Read only	•				•
Microsoft Loop components	•	•		•	•	•						•	•				•
Create and share Loop pages ⁴ and workspaces	•	•															
Contribute to Loop pages and workspaces	•	•		•	•	•						•	•				•
Microsoft Clipchamp Standard	•	•															
Microsoft Editor premium features	•	•			•	•											
Multilingual user interface for Microsoft 365 apps	•	•			•	•											

¹ Includes Word, Excel, PowerPoint, OneNote, Outlook, Access (PC only), and Publisher (PC only).

² Limited to devices with integrated screens smaller than 10.9".

³ Mobile apps only.

⁴ Any user can create and share pages within a workspace to which they have been invited.

Email, calendar, and scheduling

Exchange Kiosk (2 GB mailbox)												See footnote 1	•				•
Exchange Plan 1 (50 GB mailbox + 50 GB archive)				•													
Exchange Plan 2 (100 GB mailbox + up to 1.5 TB archive ²)	•	•			•	•											
Calendar	•	•		•	•	•						•	•				•
Outlook desktop client	•	•			•	•											
Auto-expanding email archive	•	•			•	•									•	•	
Exchange Online Protection	•	•		•	•	•											
Public folder mailboxes	•	•		•	•	•											
Resource mailboxes	•	•		•	•	•											
Inactive mailboxes	•	•			•	•											
Microsoft Shifts	•	•		•	•	•											
Microsoft Bookings	•	•		•	•	•											

¹ Microsoft 365 F1 includes the Exchange Kiosk service plan to enable Teams calendar only. It does not include mailbox rights.

² 100 GB initial archive with automatic expansion up to 1.5 TB.



Conditional Access

Dashboard > Security > Conditional Access

Conditional Access | Named locations

Azure Active Directory

⌵ Policies

📍 Insights and reporting

⚙️ Diagnose and solve problems

Manage

🔗 Named locations

🛡️ Custom controls (Preview)

⏪ + Countries location + IP ranges location 🔗 Configure MFA trusted IPs

Named locations are used by Azure AD security reports to reduce false positives and Azure AD conditional access policies.

Location type : All types

Trusted type : All types

🔍 Search names

Name

No named locations found.





Banned Password Lists



[All services](#) > [Security | Authentication methods](#) > [Authentication methods](#)



Authentication methods | Password protection

· Azure AD Security

Search



Save



Discard



Got feedback?

Manage

Policies

Password protection

Registration campaign

Authentication strengths (Preview)

Monitoring

Activity

User registration details

Registration and reset events

Bulk operation results

Custom smart lockout

Lockout threshold ⓘ

10

Lockout duration in seconds ⓘ

60

Custom banned passwords

Enforce custom list ⓘ

Yes

No

Custom banned password list ⓘ

Password protection for Windows Server Active Directory

Enable password protection on Windows Server Active Directory ⓘ

Yes

No

Mode ⓘ

Enforced

Audit





Evolving Regulatory Expectations





Regulatory Updates – August 29

FFIEC Information Technology Examination Handbook

Development, Acquisition, and Maintenance



8/31/25 – CAT Sunset

- NIST CSF 2.0
- CISA Cybersecurity Performance Goals
- CRI Profile 2.0
- CIS Critical Security Controls



Regulatory Updates

June 2023 - Interagency Guidance on Third-Party Relationships: Risk Management

September 2023 – Updated Information Technology Risk Examination (InTReX) Procedure

SEC Cyber Incident Disclosure

The screenshot shows the SEC TCR intake form at the URL <https://tcr.sec.gov/TcrExternalWeb/faces/pages/intake.jspx>. The form includes a list of complaint categories with radio buttons. The selected category is "Material misstatement or omission in a company's public filings or financial statements, or a failure to file". Below this, there is a dropdown menu for "Please select the specific category that best describes your complaint." with "Failure to file reports" selected. There are also checkboxes for "Is this supplemental information to a previous complaint?" (set to "No") and a text area for "In your own words, describe the conduct or situation you are complaining about." The text area contains a sample complaint about MeridianLink's failure to file a cybersecurity incident disclosure under Item 1.05 of Form 8-K.

<https://tcr.sec.gov/TcrExternalWeb/faces/pages/intake.jspx>

- ☐ General trading practices or pricing issues
- ☐ Manipulation of a security
- ☐ Insider trading
- ☒ Material misstatement or omission in a company's public filings or financial statements, or a failure to file
- ☐ Municipal securities transactions or public pension plans
- ☐ Specific market event or condition
- ☐ Bribery of, or improper payments to, foreign officials (Foreign Corrupt Practices Act Violations)
- ☐ Initial coin offerings and cryptocurrencies
- ☐ Other

Please select the specific category that best describes your complaint.

Failure to file reports

* Is this supplemental information to a previous complaint?

No

* In your own words, describe the conduct or situation you are complaining about.

We want to bring to your attention a concerning issue regarding MeridianLink's compliance with the recently adopted cybersecurity incident disclosure rules.

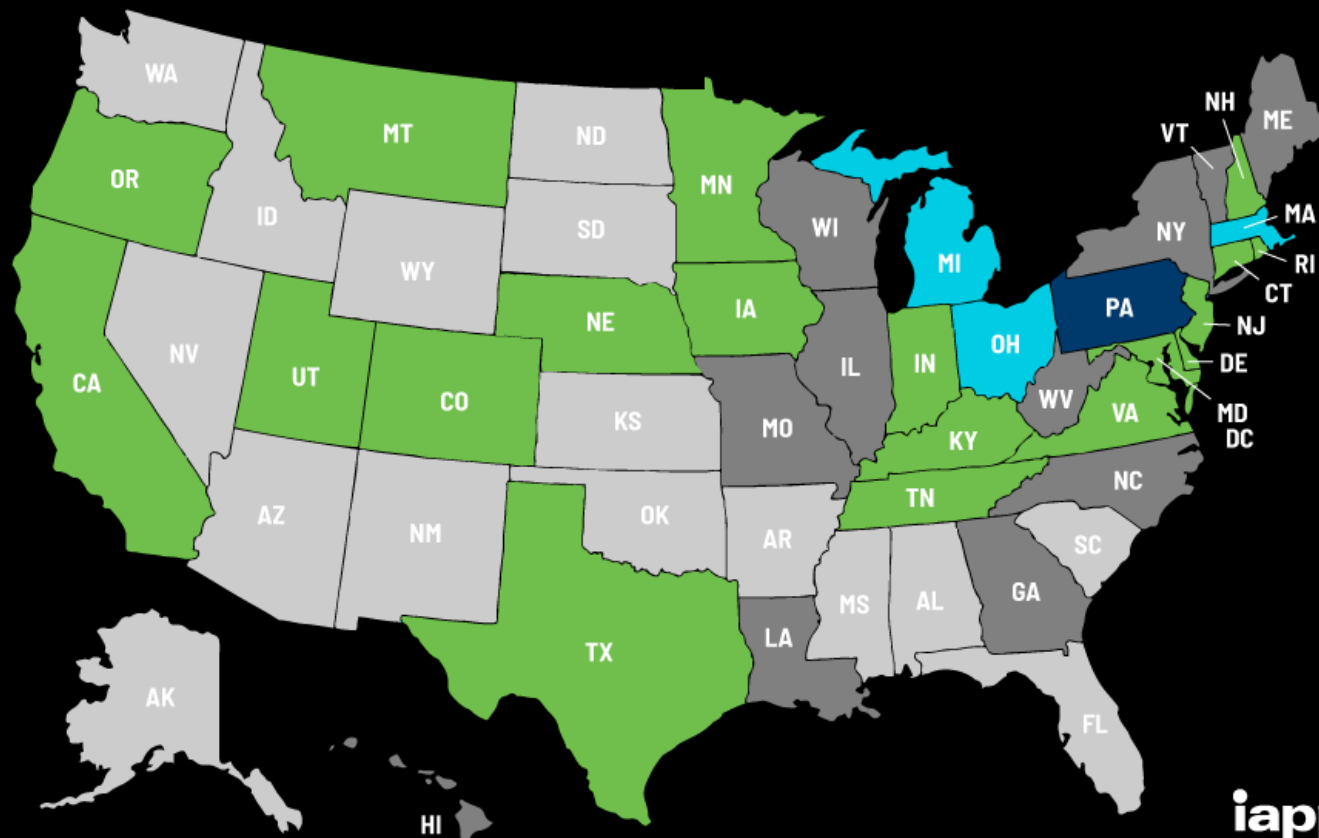
It has come to our attention that MeridianLink, in light of a significant breach compromising customer data and operational information, has failed to file the requisite disclosure under Item 1.05 of Form 8-K within the stipulated four business days, as mandated by the new SEC rules.



Statute/bill in legislative process

- Introduced
- In committee
- In cross chamber
- In cross committee
- Passed
- Signed
- Inactive bills
- No comprehensive bills introduced

🔄 Last updated 22 July 2024



iapp



Cyber insurance challenges

GOVERNANCE, POLICIES AND PROCEDURES

5. Does the applicant have:

- a. A documented Incident Response Plan that has been tested (e.g., tabletop exercise) in the last 12 months? Yes ☒ No ☐
- b. Documented business continuity and disaster recovery plans that have been tested in the prior 12 months? Yes ☒ No ☐

If "Yes," do they address ransomware attacks, and what are the time objectives and defined roles for the recovery? Yes, operational recovery of main systems within 24 hours

- c. A documented security audit process? Yes ☒ No ☐
- d. A Chief Information Security Officer or equivalent? Yes ☒ No ☐
- i. If "Yes," internal or external? Internal ☒ External ☐
- e. A formal/written Data Retention Policy, which includes email? Yes ☒ No ☐
- f. A documented Privacy Policy? Yes ☐ No ☐
- g. Does the applicant utilize any of the following security frameworks, standards, or best practices:

- | | | |
|--|---|---|
| <input type="checkbox"/> NIST | <input type="checkbox"/> HIPPA Security | <input type="checkbox"/> COBIT |
| <input type="checkbox"/> ISO/IEC 27001 | <input type="checkbox"/> ISF | <input type="checkbox"/> HITECH |
| <input type="checkbox"/> PCI-DSS | <input type="checkbox"/> FFIEC | <input type="checkbox"/> Center for Internet Security
Cybersecurity Assessment Tools |

Others (Please Specify) _____

EMAIL SECURITY

6. Is the Applicant's email server on premises or hosted with a third party?
On premises ☐ Hosted with a third party ☒
7. If with a third party, which vendor? _____
8. Is annual (or more frequent) security awareness training with includes phishing, required for all employees? Yes ☒ No ☐
9. Are employees on an annual or more frequent basis receive security awareness training which includes phishing? Yes ☒ No ☐
10. Does the Applicant allow users to access e-mail when not at a company location? Yes ☒ No ☐
- a. If "Yes," then does the Applicant require multi-factor authentication (MFA)

Page | 2

- for all users? Yes ☒ No ☐
- b. Does the Applicant allow access through personal and/or non-company supplied devices? Yes ☒ No ☐
11. Does the Applicant use a product to scan emails for malicious files and/or links? Yes ☒ No ☐
- a. If "Yes," which product/tool is utilized? _____
Cybergraph _____
12. Does the applicant utilize an email sandboxing process to test suspicious emails? Yes ☒ No ☐
13. Does the Applicant tag emails from outside of the organization as "external" or similar? Yes ☒ No ☐
14. Does the Applicant use a Data Loss Prevention process/tool for email? Yes ☐ No ☒
15. Does email infrastructure offer SPF/DKIM/DMARC for other companies to ensure the Applicant's messages are legitimate? Yes ☒ No ☐
16. Does your email structure filter messages based on SPF/DKIM/DMARC? Yes ☒ No ☐
17. Does the Applicant use a quarantine and/or other screening process for emails? Yes ☒ No ☐
- a. If "Yes," please describe _____
Cybergraph _____



Cyber insurance challenges

20. Access Control

- Does the Applicant require use of MFA for all users for remote access to its network?
- Does the Applicant require MFA for all access to all cloud-based services or applications used by the Applicant?
- Does the Applicant require use of MFA for all access to administrator accounts?
Note: Administrator accounts are accounts used by users to carry out tasks that require special permissions, such as installing software, managing anti-virus administration, editing information in Active Directory, accessing routers, or provide access to backups.

If "No" to any of a-c above, please provide details below:

- Does staff with administrator privileges utilize a separate user account when exercising administrative privileges?
- Does the Applicant allow non-IT employees local administrative privileges?
- Does the Applicant use a privileged access management solution or other tool to protect privileged accounts?
If "Yes," which product(s)

- Does the Applicant utilize a VPN for remote connection?

Network Segmentation

- Is the Applicant's network segmented for security purposes, either virtually or physically?

Yes ☒ No ☐

- If "Yes" then which of the following features are utilized:

- | | |
|---|--|
| <input type="checkbox"/> DMZs | <input checked="" type="checkbox"/> Hardware Firewalls/internal segmentation firewalls |
| <input type="checkbox"/> Industrial Control Systems (ICS) network | <input checked="" type="checkbox"/> VLAN |
| <input checked="" type="checkbox"/> VoIP network | <input type="checkbox"/> Access Control Lists |
| <input checked="" type="checkbox"/> Guest network | <input type="checkbox"/> Software Defined Perimeter |
| <input type="checkbox"/> SDN | <input type="checkbox"/> PCI Data segregation |
| <input type="checkbox"/> Proxy server | <input type="checkbox"/> Other |

Comments (Optional):

- What controls/tools does the Applicant use to protect physical access to the environment?

- Does the Applicant utilize Operational Technology (OT) technologies and protocols in their operations (e.g., to monitor and control Industrial Control Systems, manufacturing equipment, and supervisory control and data acquisition (SCADA) software)?

Yes ☒ No ☐

- If "Yes," are the Applicant's OT systems segmented from the rest of the environment?

Yes ☒ No ☐

- If "Yes," is the Applicant's OT systems exposed to/accessible from the public internet?

Yes ☐ No ☒

- If "Yes," does the Applicant require MFA for all remote access to OT systems?

Yes ☐ No ☐



Takeaways

1. Ongoing training on social engineering – calls, emails, and in-person
2. Support for Bank-wide password manager
3. Implement multifactor authentication –employee, Board, and customer
4. From mice to AI – assess security of new technologies
5. Test incident detection and response capabilities – and involve key vendors





Thank you!

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