



Presented by:

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Featuring Subject Matter Expert:

Denise DeRosa, Asst. Business Administrator, Middletown Township School District

Agenda





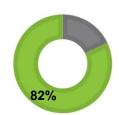
"Humans have the opportunity to be the greatest defense against cyberattacks, but most are often found to be the weakest link in the chain. Lack of proper training and prioritization of a strong security posture leave employees vulnerable to accidentally releasing attacks into the business."

Source: McAfee Labs Threats Report





Fraud Defenses: Scale Up, Never Let Your Guard Down

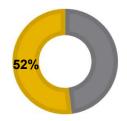


Fraud Susceptibility Rises for AP/AR but Declines for Treasury and Payroll

AP has again been identified as the area most susceptible to fraud (82%), representing a further deterioration since 2019 when 67% of respondents expressed this concern. Meanwhile, the perception of treasury's susceptibility to fraud has improved, dropping from 53% to 46%. This indicates AP is now the most susceptible area for fraud by a factor of almost two times any other area. Procurement also saw a sizable jump in susceptibility, from 17% to 28%, while payroll made notable improvements (26% to 12%).

Companies scale up their fraud defenses:

To combat potential fraud exposure, which has significantly increased in this remote work environment, firms have bolstered their fraud defenses by adopting multi-factor authentication (MFA), encryption and monitoring software/anomalous behavior detection/tracking. Concerns about AP fraud grew in 2020, with 82% of organizations identifying it as the most susceptible group while treasury and payroll fraud concerns notably subsided.



Supply Chain and Cyberfraud Remain Top Industry Concerns

Of their top three global economic and operational risk concerns, 81% of corporate respondents listed a global health pandemic that could affect the supply chain as their top concern, followed by cyberfraud (52%) and trade conflict with China (48%). These responses reflect current economic challenges that have led to an increase in cyberfraud. Banks mirror corporate responses regarding the pandemic's impact on the supply chain and cyberfraud, but differ in their third most pressing concern of interest rates (51%).





Notable Cyber Threats

Threats identified as "sever key themes" are part of TD's risk and threat mapping



Cyber Fraud Against Customers

Customers targeted by phishing, banking trojans, and social engineering for financial gain such as Business Email Compromise (BEC) or Email Account Compromise (EAC).



Cyber Attacks on Network, Systems, & Employees

Networks, systems, and employees targeted which could result in business disruption, data loss, or cyberfraud losses



Third Party & Insiders Leverage Privileged Access

Access by unauthorized entities could result in data breaches containing sensitive internal and customer information







Actions:

Education:

✓ All vulnerable staff are trained

Prevention:

- ✓ Dual authentication
- ✓ Access and admin controls
- ✓ IT Security

Detection:

- ✓ Automation
- ✓ Reconciliation



Targeting:

- · 80% of businesses targeted
- Susceptible regardless of business size



Sources of Fraud:

- Business Email Compromise (61%)
- Outside Individual forged check or stolen card (58%)
- Related Third Party vendor or service provider (26%)

Payment Methods Targeted for Fraud:







- Optimizes controls for quick detection and remediates live phishing and malware threats
- Employee report suspicious button is used to decrease click rate and increase report rate incrementally
- Proactively identify phishing sites using JavaScript Web Beacon



Targeting:

- Email
- Telephone
- Text message

Sensitive Data:

- PII
- Banking details
- Passwords



Well-Known Brands used in Phishing Scams:

- World Health Organization (WHO)
- · Country-specific health agencies
- Companies



Business Email Compromise (BEC) is the most-often reported source of payments fraud attacks







- ✓ Tracking and reporting on COVID-19 related fraud and attacks
- Engaged in collaborative sharing with key external partners
- ✓ Produced a report on "Cyber & Privacy Risks Associated with Zoom"



Targeting:

- · Stimulus check fraud
- · Relief and unemployment payments
- · New small business loans



Video Conference and Communication Platforms:

 500k Zoom accounts sold on the Dark Web



Working from Home Risks:

Increase and uncontrollable data exposure through personal as well as work-issued devices







Actions:

- ✓ Tracks groups, attacks, and new developments
- ✓ Produced Ransomware Playbook
- ✓ Produces profiles on ransomware and attack stages



Targets:

- · Major organizations
- · Third-parties



Biggest Ransomware Attacks of 2020:

- FBI \$1B USD
- Public & Private Sectors \$144MM USD



Extortionist Tactics:

- Searching networks and steal the data before they encrypt the system
- Select information is shared on "name and shame" sites





Denise DeRosa, Asst. School Business Administrator and Assistant Board Secretary **Middletown Township School District**

Total Revenue Budget: \$171.73 million

Student Population: ~9,500

Number of Schools: 16

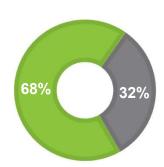
(includes 3 middle schools and 2 high schools)





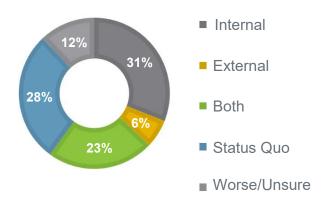


Working Capital Management: Focus Bears Results



Over two-thirds of organizations place a heavy emphasis on optimizing working capital, which could be reflective of the challenging operational environment.

Sixty percent of firms noted improvements in working capital, while 28% have remained even, and only 4% indicated working capital deterioration during this timeframe. Internal initiatives alone or with external financing (54%) showed the largest improvement.









Managing Working Capital Beyond 2020

Five Key Changes:

- Improve visibility to increase responsiveness streamline metrics and reporting, focus on key indicators.
- Increase the frequency scenario modeling for cash flow forecasting and develop proactive contingency plans.
- Accelerate technology adoption and digital transformation increase operational efficiencies and embrace virtual, technology-enabled ways of working.
- Revisit service delivery models increase flexibility, resilience, and agility to understand and manage risks across the supply chain and their impact on cash flow.
- Make working capital management a cross-functional responsibility and minimize activities that will jeopardize liquidity.

Source: Hackett Group 2020 Working Capital Study



Taking the first steps...where to begin

Build a strategy to optimize the use of various "Payment Rails"

- Commercial Credit Card* efficient for both payer and payee;
 monetize payables with float and revenue opportunities
- ACH Transactions economical and versatile
- Checks Resource-intensive, time-consuming and expensive
- Wires some transactions simply call for a Fedwire



Optimize your business payments to improve working capital and reduce operational costs.

*Not a revolving credit line

Cost-Benefit of Optimizing Payment Rails

Creating a (Virtual) Card Program	Converting Check to ACH	Outsourcing Checks
Cost Savings	Cost Savings	Cost Savings
Cost of a check: \$3.00 \$1,500 Monthly (500 Checks)	Cost of a check: \$3.00 \$1,500 Monthly (500 Checks)	Cost of a check: \$3.00 \$1,500 Monthly (500 Checks)
Avg Cost of a Card Payment: \$1.50 \$750 Monthly (500 Payments)	Cost of an ACH Payment: \$.29 \$145 Monthly (500 Payments)	Cost of a Bank issued Check: \$2.34 \$1,170 Monthly (500 Payments)
Cost Savings: \$750/month	Cost Savings: \$1,355/month	Cost Savings: \$330/month
Revenue Opportunity Average Rebate: 100bps – 60bps	**Not all Checks can become Card or ACH. Some vendors remain in a world where checks are required. Overall, there is an	**In this scenario, all of the time and effort is reduced to one file that gets sent to the bank for processing.**
Revenue Opportunity \$1MM - \$10K - \$6K \$2MM - \$20K - \$12K \$3MM - \$30K - \$18K	"Optimization" of these rails and that is unique to every business.**	
ROI = +\$19K – \$15K (Annually)		

Optimization Strategy



Take the time to review your current payment mix

Analyze where your payments are focused today.



Explore potential benefits of a (virtual) card program

Offset expenses by monetizing a portion of spend.



Find the right payment solution for your business

Consider your evolving needs to gain efficiencies.



Capitalize on the opportunity to streamline

Implement your strategy with key partners.



Track the results and report benefits to key stakeholders.





Fraud Strategy: Layer 1 – Account Structure

For example:

4 Accounts comprised of:

Account 1: Check and ACH activity

Account 2: ACH Only

Account 3: Check only

Account 4: No Check or ACH

Check Positive Pay with Payee Verification

ACH Positive Pay

ACH Block

Check Block

Fraud Strategy: Layer 2 – Account Information

For example:

4 Accounts comprised of:

Account 1: Check and ACH activity

Account 2: ACH Only

Account 3: Check only

Account 4: No Check or ACH

Layer 1 **Account Structure**

Check Positive Pay with Payee Verification

ACH Positive Pay

ACH Block

Check Block

Physical Security

Change Management Policies

Separation of Duties and Access

Storage of Vendor Information

Fraud Strategy: People and Processes

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4 Accounts comprised of:

Account 1: Check and ACH activity

Account 2: ACH Only

Account 3: Check only

Account 4: No Check or ACH

Layer 1
Account Structure

Layer 2
Account Information

Check Positive Pay with Payee Verification

Physical/Network Security

Training and Education

ACH Positive Pay Blocks/Filters

Change Management Policies

Individual Resiliency

ACH Block

Separation of Duties and Access

Establishing a Risk Management Culture

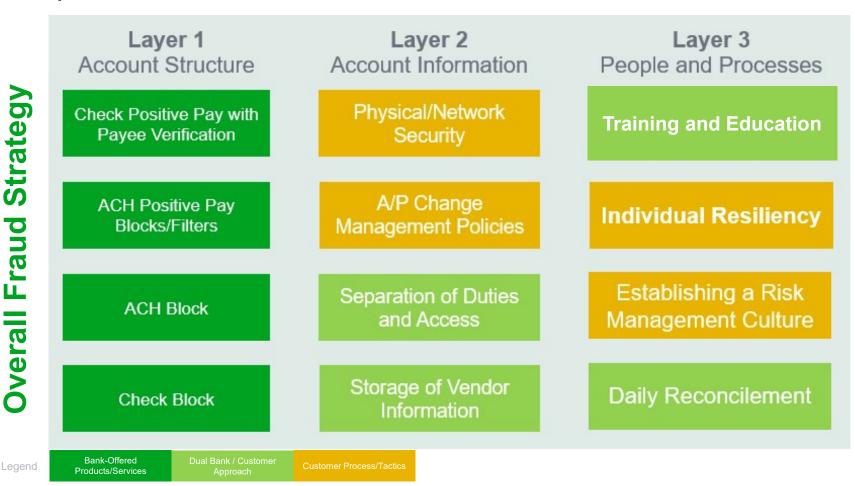
Check Block

Storage of Vendor Information

Daily Reconcilement



Overall Fraud Strategy



Become More Resilient

In 2020, 74% of financial professionals reported that their organizations had been victims of attempted or actual fraud attacks, with 61% indicating that Account Payable is the most vulnerable business unit. Help safeguard your business through:



Technology

Deploy innovative technologies that enhance your company's safety and security



Tradecraft

Develop information sharing platforms, intelligence products, and operational playbooks that inform executive action and decision-making



Teamwork

Implement leading management practices and initiatives to maximize collaboration, learning, and innovation across functional areas

Build the Right Culture.

Robust technology and static fraud prevention processes are not enough.

Leaders must build a culture in which fraud awareness is second nature for the whole team.

Moreover, that culture must support teams to stay abreast of the latest threats, with a clear understanding of how to spot and avoid them.



Establishing a culture of risk management and accountability ensures that security becomes part of the business and not an afterthought. >>

Source: McAfee Labs Threats Report

Thank You!



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Appendix



Resources at your Fingertips

Resource	Link ¹
Cybersecurity and Infrastructure Security Agency (CISA)	Cyber Actors Target K-12 Distance Learning Education to Cause Disruptions and Steal Data
	Webinar - K 12 Education Leaders' Guide to Ransomware Prevention, Response, and Recovery
	https://www.cisa.gov/ransomware-reference-materials-k-12-school-and-school-district-it-staff
	Security Tip (ST04-014) Avoiding Social Engineering and Phishing Attacks
	https://www.cisa.gov/publication/secure-video-conferencing-schools
	https://www.cisa.gov/ransomware-trainings-and-webinars
Treasury Perspectives Survey (2020) Strategic Treasurer and TD Bank	https://strategictreasurer.com/2020-treasury-perspectives/

¹ TD Bank does not control the content or privacy policies associated with any third-party websites provided.



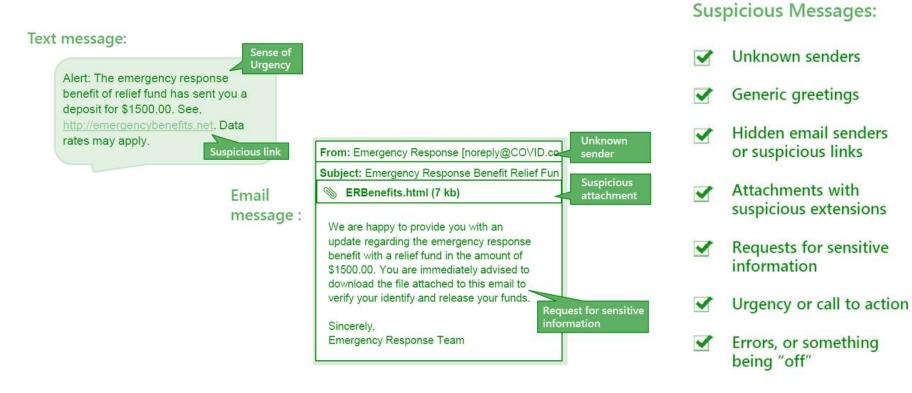
10 COMMON RISK MANAGEMENT PRACTICES

- **Cultivate a Risk Management Culture** within the organization
- Mandate Process Controls including dual control and segregation of duties
- Validate the origin and security of a website's URL especially for banking and payments
- **Pick up the Phone** to authenticate **ALL** payment requests (internal & vendor)
- Inspect Bank Accounts Daily and reconcile frequently to spot potential fraud
- **Structure Bank Accounts** to isolate activities and leverage inherent controls
- Use Fraud Deterrent Banking Services like Positive Pay, ACH Blocks/Filters, etc.
- **Monitor Information** with credit reporting agencies and state record databases
- **Initiate Background Checks** on **ALL** employees and contractors
- Notify the Bank & Law Enforcement if you are under attack



Warning Signs for

Cyber Threats: Phishing



Ransomware Mitigations – Defend Today, Secure Tomorrow

Actions for Today – Make Sure You're Not Tomorrow's Headline:

- 1. Backup your data, system images, and configurations and keep the backups offline
- Update and patch systems
- 3. Make sure your security solutions are up to date
- 4. Review and exercise your incident response plan
- 5. Pay attention to ransomware events and apply lessons learned

Actions to Recover If Impacted – Don't Let a Bad Day Get Worse:

- 1. Ask for help! Contact CISA, the FBI, or the Secret Service
- 2. Work with an experienced advisor to help recover from a cyber attack
- 3. Isolate the infected systems and phase your return to operations
- 4. Review the connections of any business relationships (customers, partners, vendors) that touch your network
- 5. Apply business impact assessment findings to prioritize recovery

Actions to Secure Your Environment Going Forward – Don't Let Yourself be an Easy Mark:

- 1. Practice good cyber hygiene; backup, update, whitelist apps, limit privilege, and use multifactor authentication
- 2. Segment your networks; make it hard for the bad guy to move around and infect multiple systems
- 3. Develop containment strategies; if bad guys get in, make it hard for them to get stuff out
- 4. Know your system's baseline for recovery
- 5. Review disaster recovery procedures and validate goals with executives



Source: www.CISA.gov