



Building Success. Together.

The State of Fraud

Virginia Bankers Association

Connect | Protect Experience

February 28, 2022

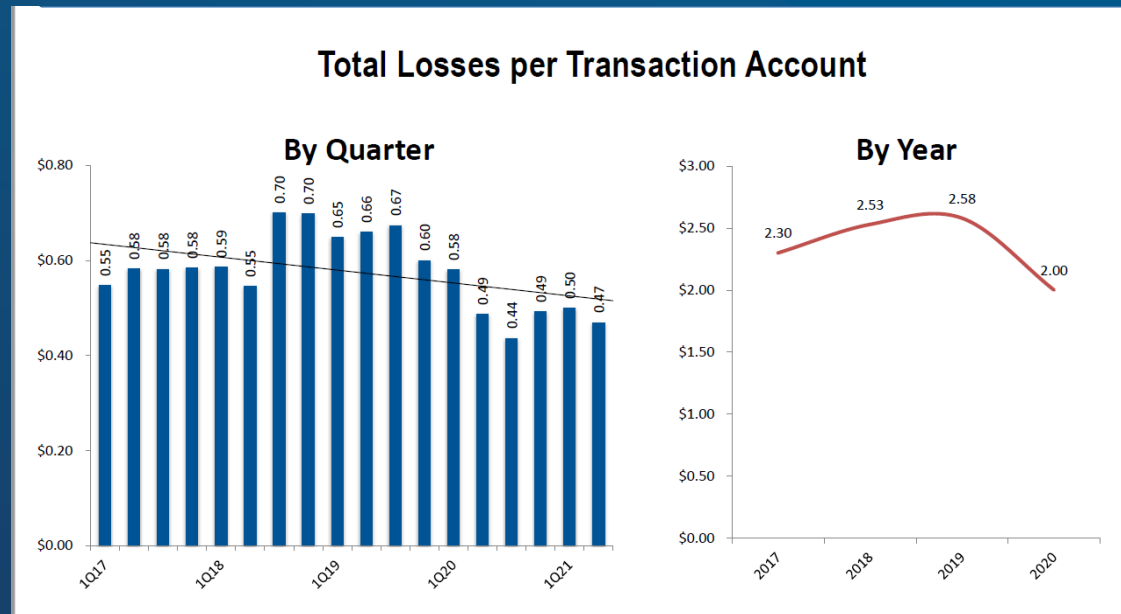


Agenda

- Defining the Problem
- Building a Strong Defense
- Top Targets / Threats & How to Mitigate
 - State Unemployment Insurance Fraud
 - P2P Trending Fraud – Zelle
 - Email Compromise Fraud (Business Email Compromise / Email Account Compromise)
- Tools & Notes
- Appendix

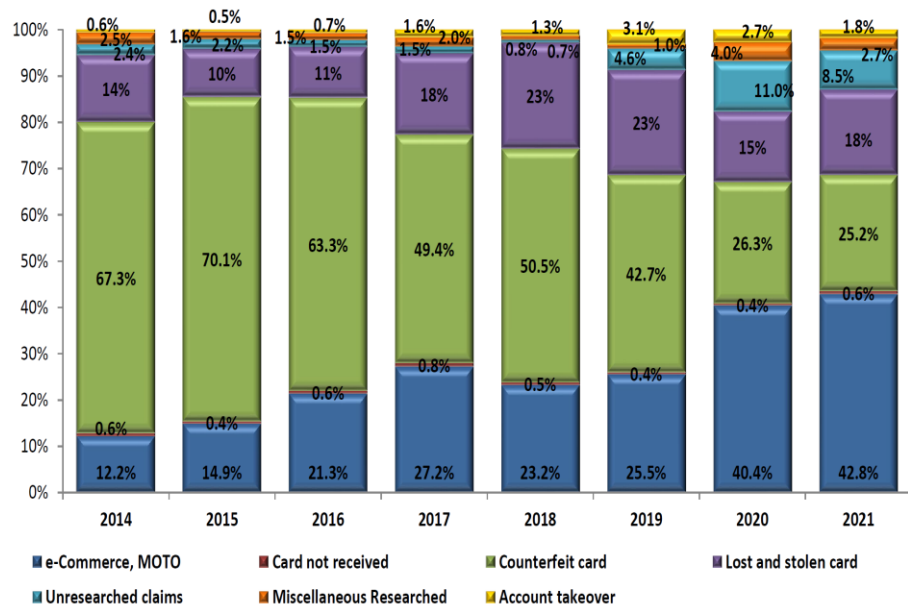
Check Fraud was No Longer King in 2021...But is Making a Comeback

- Check fraud slowly dropped when the pandemic started in Q2 2020.
- It remained low and steady until recently (anecdotally).

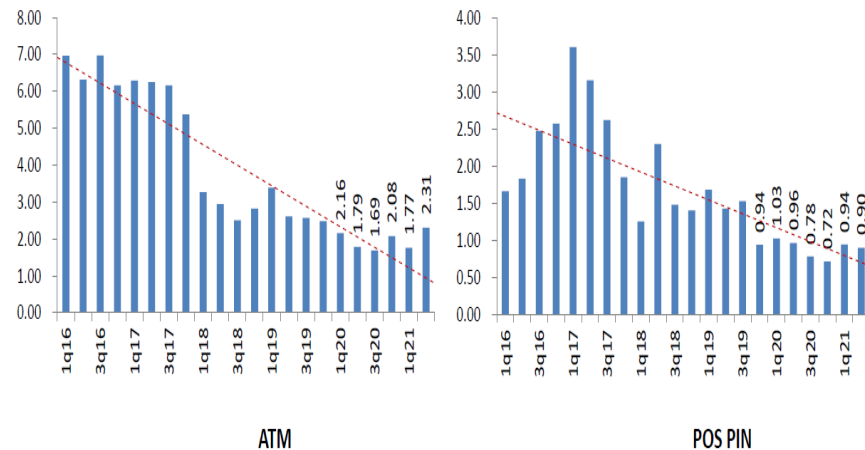


Debit Card Fraud remains a good Monetization Tool for Fraudsters...

Source of Fraud Losses, 2014- current
Yearly Average



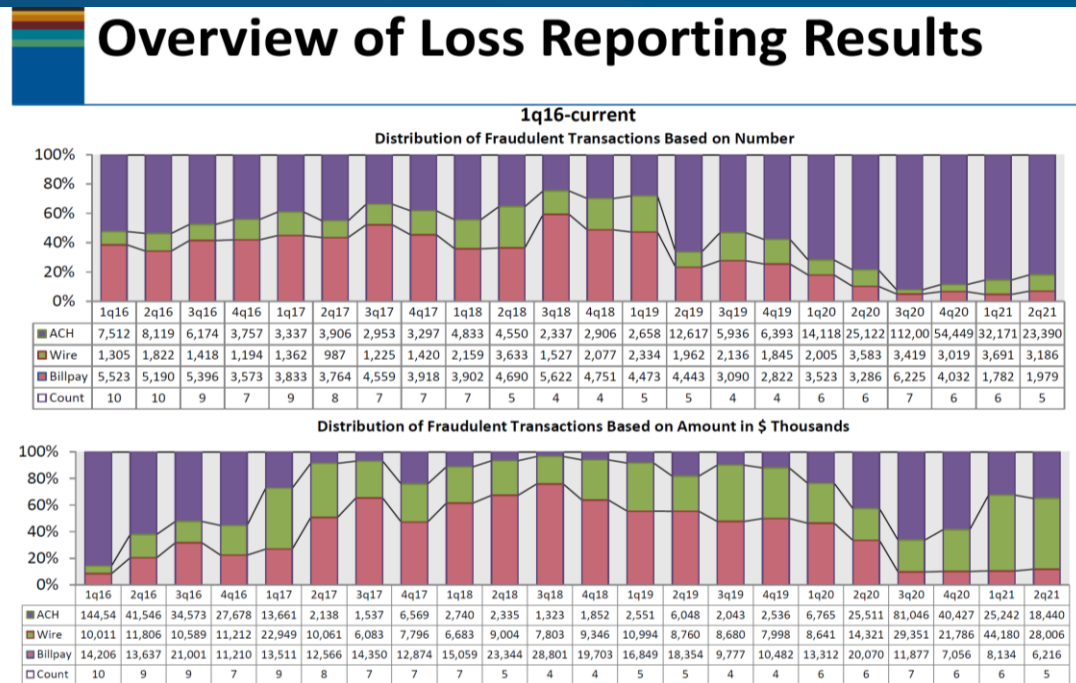
by quarter: 1q16 to current quarter



*ATM: Amount of ATM Withdrawals.
POS PIN: Amount of POS PIN Sales.

Online Banking Fraud

- ACH has been the leading category in fraudulent transactions based on number of transactions since early 2019.
- ACH fraudulent transactions (based on number) have represented over 60% since 2020.



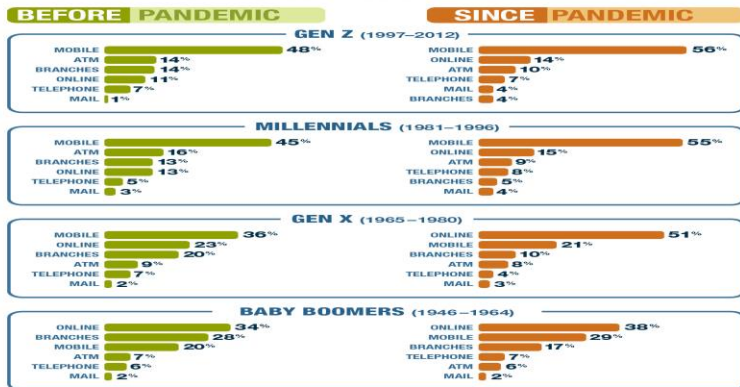
How Americans Bank: Before and During COVID-19

Before pandemic Since pandemic

Since the pandemic arrived in the U.S., mobile and online use increased, branch visits declined.

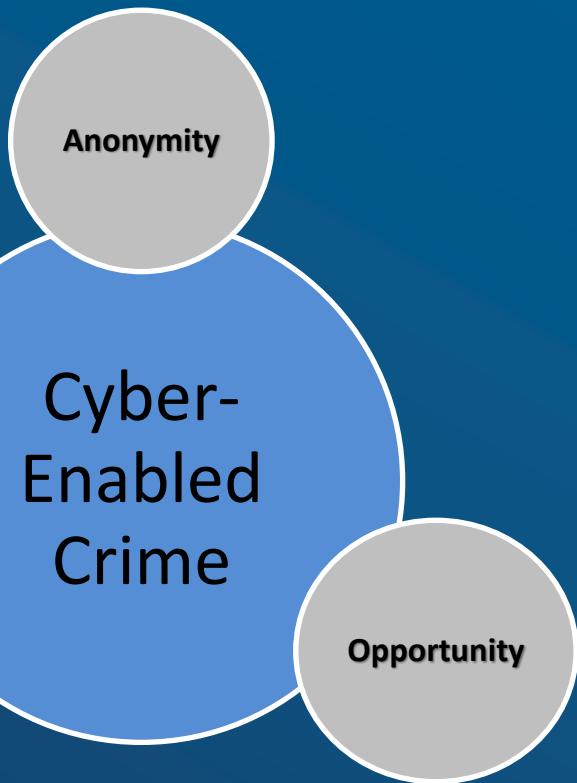


Different Generations Bank Differently



American Bankers Association

Source: Morning Consult, on behalf of American Bankers Association, conducted an online survey of 2,201 U.S. adults from Oct. 1-9, 2021.



American Bankers Association

Cyber Enables...

Today's Banking Paradigm



...Cyber Enables...

Dark Market/Web Forum

➤ Anonymous interaction using TOR

- Phishing kits
- Credential Stuffing packages
- “Credit Card number sells for \$2 on the black market while a health record goes for \$20 or more...”

-Peter B. Nichol, PMP, CSSMBB

- “Social Security Number sells for \$1.00 and a drivers license \$20...”

-FiVerity

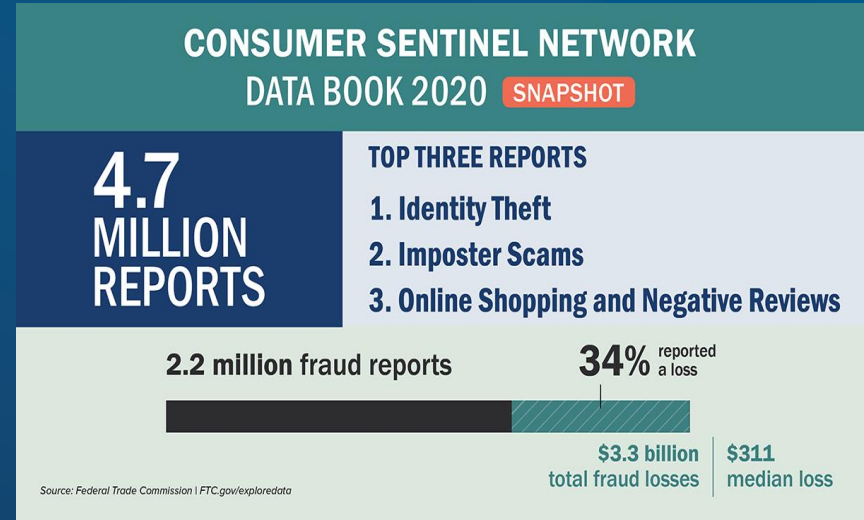
- Cashout/Mule Services

Статистика Top 5			
Наиболее популярные разделы	Последние сообщения		Reload
1 Раздача хакеров - [en] Public Freebie	26,196 Buy stuff UK	2,184/8	sokol eshelon • 22-08, 18:28
2 Sell CC & CVV	24,056 Iphone unlock helps	1,003/3	HGWELLS • 22-08, 18:23
3 UNVERIFIED ADVERTISEMENT	15,745 Play on my link with vibv, get BTC...	73/3	HGWELLS • 22-08, 18:21
4 Dumps	13,752 Как хаекеры и кардеры а также уважикей...	195/3	sokol eshelon • 22-08, 18:18
5 НЕПРОВЕРЕННАЯ РЕКЛАМА	13,607 куплю аккаунт лиссокс	267/5	Suter • 22-08, 18:17
Активные пользователи	Chase with email access	196/3	pinco • 22-08, 18:15
1 JokerSlash	4,944 Free Cards for New carders	4,572/139	Static • 22-08, 17:58
2 vn5socks.net	4,757 How to use 201 Dumps in Chip...	78/2	ARMY31 • 22-08, 17:57
3 shopssocks5.com	2,926 Pro-CC-cc - THE ONLY PROVIDER OF CC...	14,434/114	Flppanalla • 22-08, 17:53
4 mak	2,816 Экстренное скрытие и безвозвратное...	2,399/13	Z@rk • 22-08, 17:14
5 WWW	1,803 EU and Scandinavian stuff drops	174/3	Groundiv • 22-08, 17:04

Сервисы форума - [en] Verified services			
Forum	Last Post	Threads	Posts
★ Sell CC & CVV (22 Viewing) Sell CC's & CVV only	Pro-CC-cc - THE ONLY PROVIDER OF CC FULL... by Flppanalla Today 17:53	30	24,056
★ Dumps (15 Viewing) Selling and cashout dumps only	Russianmarket - DUMPS + CVV + RDP + PINPAL +... by lamet2 Today 15:00	21	13,752
★ Enroll, Accounts, Shops, SSN services (3 Viewing) Enroll (COBs, Info), Sell & Buy Accounts, Banks, PP, MB and more. Search SSN, DOB, CR, etc...	[Online Shop] Продажа Банк акков 24/7 ... by Bigtime1m Yesterday 22:24	3	517
★ CashOut Services & Drops for Stuff ATM. Any cashout. Exchange, purchase, electronic currency. Drops for stuff.	[MUSD] ExchangeОбменник CRYPTOCHECK, WMZ... by Director Today 10:06	8	607
★ Plastic & Documents Any ID, Scans, Holograms, Skimmers, Labels for sell.	Отрисовка от Sergiik00&Ko / Drawing service... by bckonvertbot 20-08-2019 13:47	2	102
★ Hosting, Spam, DDoS, Call Services Hosting, Servers, Spam, DDoS, Adult and Call Services.	All you need for SPAM - SMTP on PowerMTA [...] by snowmaniac 23-07-2019 17:50	2	30
★ Security Services VPN, Proxy/Socks and other related services.	First Vpn Service - Single, Double, Triple... by Chosenonem Today 03:39	3	217
★ Avia tickets & Hotels booking Avia and hotels booking, Cars reservation, Travel deals.	Авиа, отели и депозиты от Sergiik00 / Avia... by bckonvertbot Yesterday 20:20	1	136
★ Other Services (4 Viewing) All other carding services.	*AUTOSHOP* - RichLogs.is - HQ Victim... by rbtmary Yesterday 11:04	9	2,065
★ UNVERIFIED ADVERTISEMENT (12 Viewing) All unverified advertisement & free trades area.	Iphone unlock helps by HGWELLS Today 18:23	2,891	15,818

...But People “Facilitate” Fraud.

- 30% of people surveyed use same password for financial accounts as other account(s) – *CSI 2021 Consumer Survey*
- Every day people fall victim to fraudulent calls, texts and emails pretending to be their bank
- Nothing is free in life, beware of online job offers “working from home, moving money”



MO of a Fraud Scam

- Uses phone call, text or email
- Pretends to be in a position of trust
 - Family member/acquaintance
 - Government official
 - Banker fixing account
- Sets a sense of urgency
- Requests personal information
- Requests money using wire, gift card or cryptocurrency

Best Defense: DO NOT TRUST
until verified



Go on Offense...Educate Employees and Consumers!

- Stay current on threats
 - FinCEN Advisories
 - Associations
 - LE Working Groups
- Engaging content
- Consider frequency
 - Spread anti-fraud/cyber training throughout the year
- Test behavior
 - Sandboxed phishing emails



Stay on Offense...Your E-Device is a Connected Treasure Trove

- Primary way attackers compromise computers is through viruses that exploit vulnerabilities on devices
- A device that has the latest security updates to its OS and apps may still be at risk
 - undetected flaws and RDP vulnerabilities
- Devices can become infected by seemingly innocent outside sources such as e-mail, flash drives, and web downloads
 - Continuously updated protection against exploits. Anti-virus software is a must
 - 2 Factor Authentication
 - STRONG password requirements, requiring regular resets



State Unemployment Insurance Fraud

Simple, Fast Payment Process,
into ID Theft or Mule Accounts

Enhanced benefits made this more attractive to criminals

Overburdened state agencies prioritized making payments

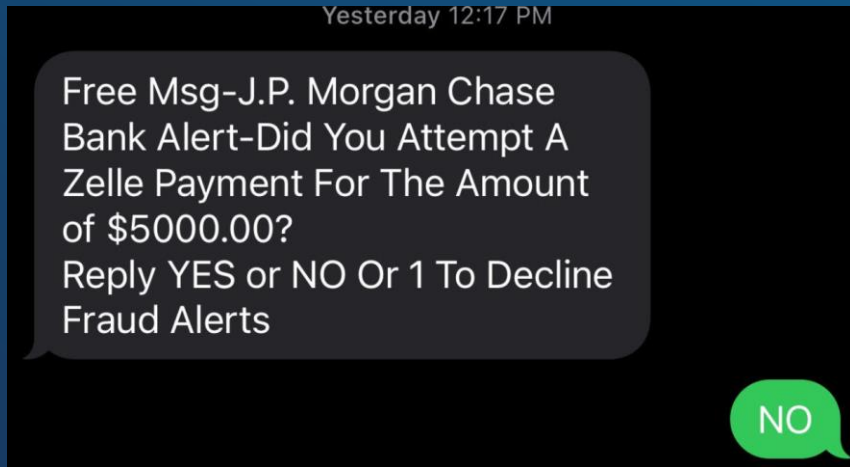
State online systems did not have adequate identify fraud safeguards

Red flags

- Account receives UI payout from out of state.
- Account receives multiple UI payments from different states
- Account receives multiple UI payments under different names.
- Account makes outgoing payments immediately upon receipt.



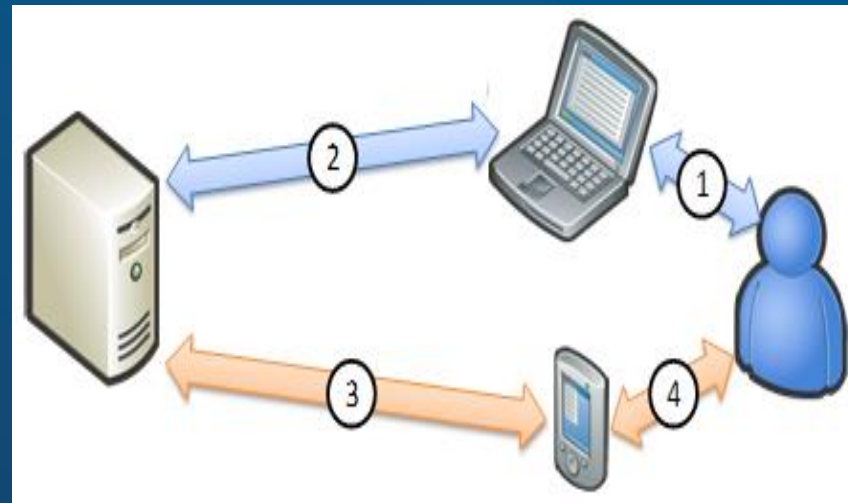
P2P - Zelle Fraud



- After victim responds (yes or no), fraudster calls them
- Fraudster socializes username and initiates password change
 - To defeat 2 step auth, fraudster keeps victim on phone and gets passcode to change password
- Password is changed and P2P payments are made to fraudsters accounts

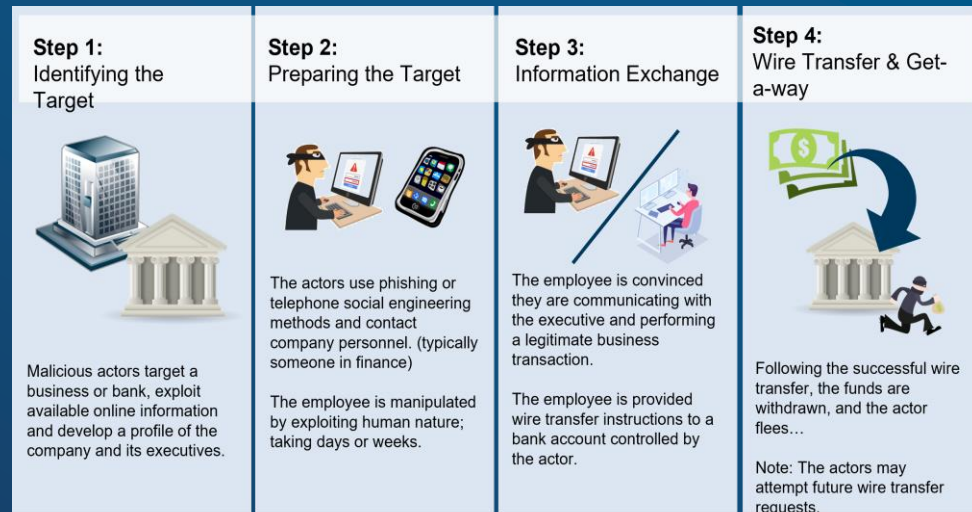
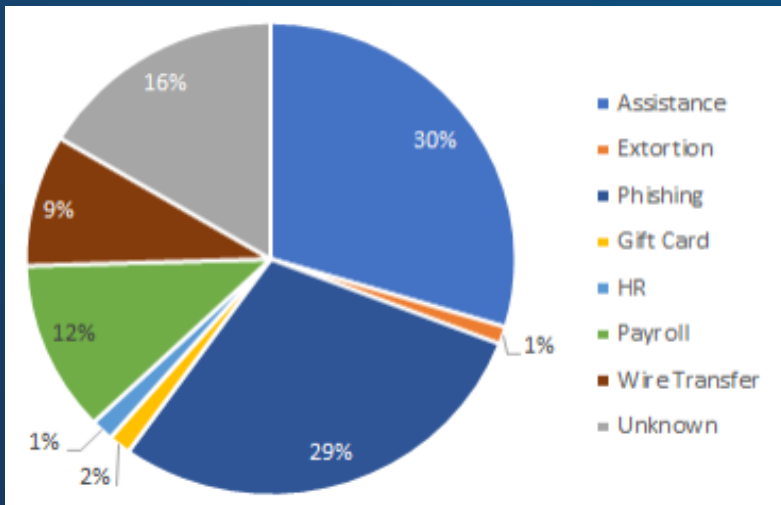
P2P Fraud Defense

- 2 factor authentication
 - Resets with OTP using out of band authentication
- Real time activity monitoring based on account behavior (like credit card models/rules)
 - Geolocation
 - Spending pattern
- Block auto enrollment of P2P
 - Require customer to initiate via verification process, and educate them
- Educate to NOT Trust until VERIFIED
 - Hang up and call bank directly, for ex.



How Email Compromise Fraud (BEC / EAC) Works & Common Themes

Most Common – “CEO Assistance”



Best Defense is Training of BEC /EAC “Red Flags”

- ✓ An urgent email requesting that a wire transfer be sent immediately
- ✓ The email domain name is very similar to the legitimate domain
- ✓ The content of the email reflects:
 - ❖ Urgency
 - ❖ The sender is out of the office
 - ❖ Leverages position within the bank
- ✓ The position of the sender

➤ **Teach, Do Not trust until verified**

ABA Tools & Notes

- ABA Initiative: #BanksNeverAskThat Campaign
 - Oct 1, ABA and banks across the country launched a Phishing awareness campaign
 - Campaign includes attention-grabbing, humorous content aimed at empowering consumers to identify bogus bank communications that ask for sensitive information (e.g., passwords & social security numbers)
- Ransomware Toolkit | American Bankers Association (aba.com)
- ABA Reg E Guidance
 - <https://www.aba.com/banking-topics/compliance/from-the-hotline/reg-e-dispute-scam>
 - <https://www.aba.com/banking-topics/compliance/from-the-hotline/reg-e-unauthorized-transaction-claim>
- Regulator Notice of Final Rule, November 2021, requiring 36- hour notification of computer security incident (Compliance date: May 1, 2022):
 - Federal Register notice: Computer-Security Incident Notification Requirements for Banking Organizations and Their Bank Service Providers (federalreserve.gov)
 - Staff Analysis: Computer-Security Incident Notification Rule | American Bankers Association (aba.com)
- FFIEC Cyber Risk Assessment Toolkit
 - FFIEC_CAT_May_2017_All_Documents_Combined.pdf

Appendix

- Banks Never Ask That!, ABA Campaign
- Scams, Who's Liable?
- FinCEN Rapid Recovery Program
- Ransomware, what it is and how it infects.
- MSP vs MSSP





American
Bankers
Association®

Goal:

Continue the success of last year's industry-wide phishing awareness campaign:

Banks Never Ask That! – Every day, people lose hundreds, even thousands of dollars to scammers imitating banks. If a scammer was pretending to be your bank, could you tell the difference?

	EMAIL	TEXT	INCOMING PHONE CALL*
YOUR ACCOUNT NUMBER	NOPE	NAY	AS IF
USERNAME OR PASSWORD	NADA	PASS	NAH
YOUR SSN	NEVER	EW	DONT
YOUR PIN	UH-UH	REALLY?	NO WAY
YOUR BIRTHDAY	NO WAY	NAH	NOOO
YOUR ADDRESS	YIKES	NOPE	NAY
CLICK A LINK OR TYPE A URL	NO NO	NOT NOW	PASS
FILL OUT A FORM	DON'T	NEVER	NOPE
DOWNLOAD AN ATTACHMENT	NOOO	HOPE NOT	NO NO
CALL THEM AT A NEW NUMBER	PASS	NO	NEVER



American
Bankers
Association®

SCAMS, Who's Liable?

1. The consumer is not liable.

Customer is fraudulently induced to give a fraudster their access information, with no intention that there be a payment (e.g., I am from the bank and you need to verify this information as described in the Bureau's Q&A).

2. Even though the person is being swindled, the consumer would appear to be liable for the amount the consumer agreed to give the fraudster because the consumer gave the fraudster authority to use the access information, much as someone can authorize someone to use their physical debt card.

Customer is induced to pay a fraudster as part of a scam and gives bank account access information as a means to pay the fraudster (e.g., passcodes).

3. Customer is liable because customer authorized the transaction.

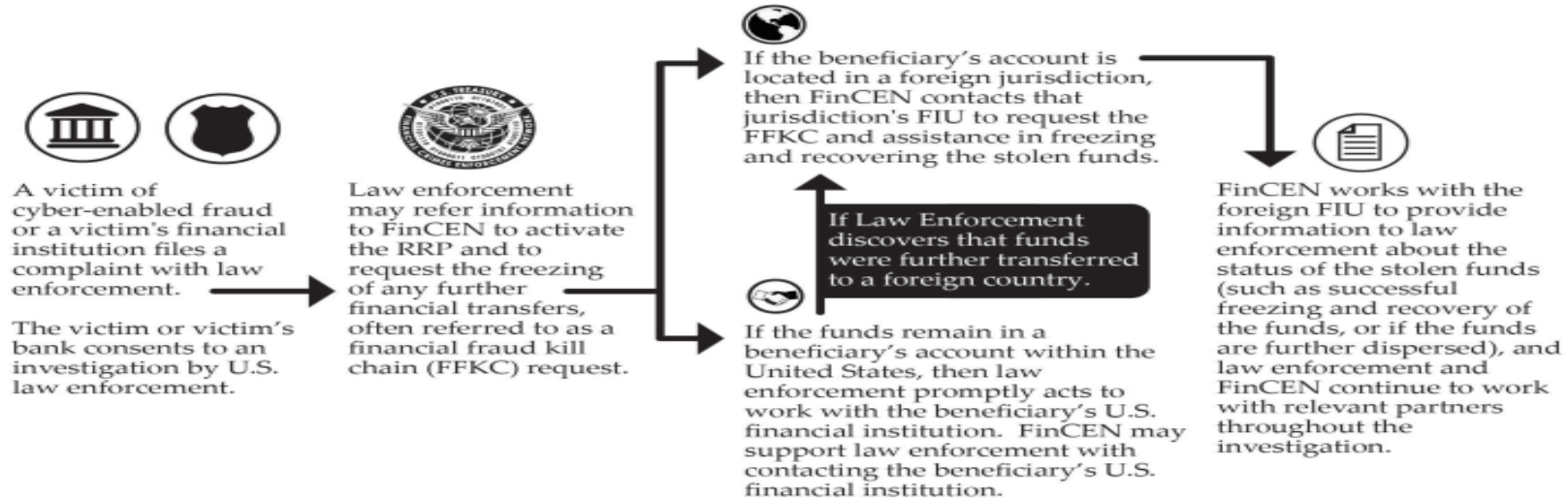
Customer initiates the transaction to pay a fraudster based on a scam e.g., transfers money using Zelle.

FinCEN Rapid Recovery Program

*Click link for additional details & instructions on how to initiate

[RRP Fact Sheet Notice FINAL 508.pdf](#)

Operational Flow of RRP



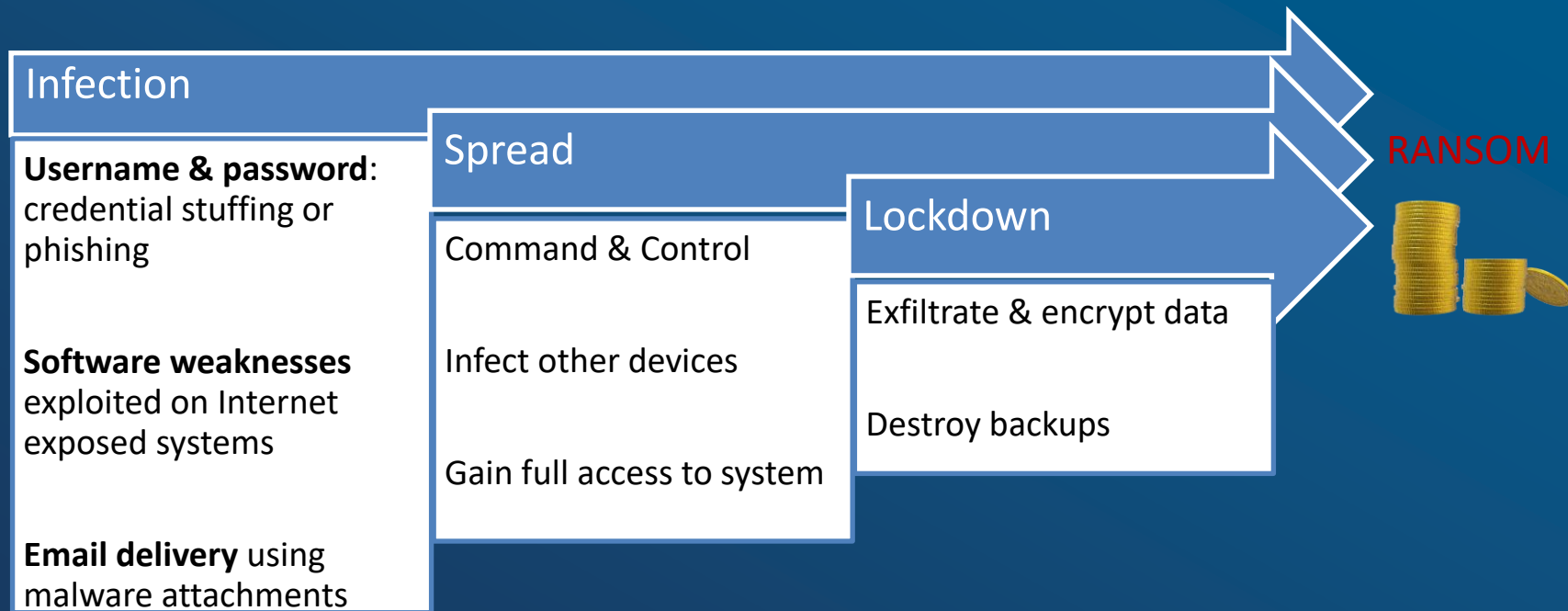
Ransomware – What is it?



Ransomware event occurs whenever a financial institution identifies cyber actors' use of malicious software code ("malware") to encrypt computer systems or stored data, and demands a ransom payment, normally in digital currency (Bitcoin), in exchange to decrypt the systems/data.

Ransomware is the result of common cyberattacks (DDOS, Phishing, password attack) and security vulnerabilities (unpatched software, RDP attacks), not the cause.

Attack Runs ~90-100 days from Infection to Lockdown



Know the difference between MSP vs MSSP and consider a layered approach

Managed Service Provider

- Provides information system availability to employees & customers
- Primarily focused on administration of network
 - IT roadmap
 - Data backup
- Engaged for usability and performance
 - Help Desk

Managed Security Service Provider

- Protects information systems from outside users
- Primary focus if IT security
 - Scanning, vulnerability patching, user authentication
- Detects & responds to threats across IT infrastructure
- Align security with compliance frameworks

Jim Hitchcock, VP Fraud Mitigation

jhitchcock@aba.com

