

CRIMINAL INVESTIGATION

DEPARTMENT OF THE

Virtual Currency Seizures

SPECIAL AGENT

IRS CI

Stacey Perez





Virtual Currency Seizures

FOR IMMEDIATE RELEASE

Monday, November 7, 2022

U.S. Attorney Announces Historic \$3.36 Billion Cryptocurrency Seizure And Conviction In Connection With Silk Road Dark Web Fraud

FOR IMMEDIATE RELEASE

Tuesday, February 8, 2022

Two Arrested for Alleged Conspiracy to Launder \$4.5 Billion in Stolen Cryptocurrency

FOR IMMEDIATE RELEASE

Friday, January 6, 2023

Ohio Man Pleads Guilty for Unlawfully Stealing Over 712 Seized Bitcoin Subject to Forfeiture in Brother's Pending Criminal Case

FOR IMMEDIATE RELEASE

Thursday, February 13, 2020

Ohio Resident Charged with Operating Darknet-Based Bitcoin "Mixer," which Laundered Over \$300 Million







- Seizing Centralized vs Decentralized VC
- Ways to Store VC
- Ways to Seize VC
- Forensics TEAMS
- Seizure Best Practices





Questions to Ask

What am I seizing?

What Blockchain is it on?



What Kind of wallets do Targets Utilize?

Is the crypto Centralized or Decentralized?





Centralized vs Decentralized

Decentralized

Bitcoin

Ethereum

Centralized

USDT (Tether)

XRP

BNB Binance Coin

Centralized vs. decentralized blockchain

	Centralized	Decentralized
NFORMATION FLOW	To and from center	Multiple routes
DECISION-MAKING	Usually hierarchical	Democratic
CONTROL	Central entity	Software code
PROS	Simpler decision-making, less expensive hardware, more control	Immutability, transparency, member-owned
CONS	Single point of failure, trust issues, data silos	Anonymity for criminals, more expensive hardware, user conflict
EXAMPLES	Binance, Coinbase	Bitcoin, Ethereum



Storage Matters



coinbase

Decentralized

Bitcoin (What if its on an Exchange)

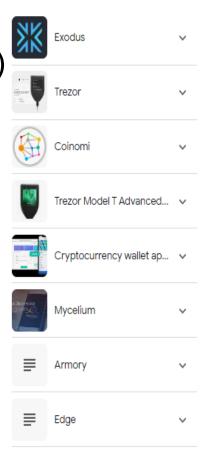
Ethereum

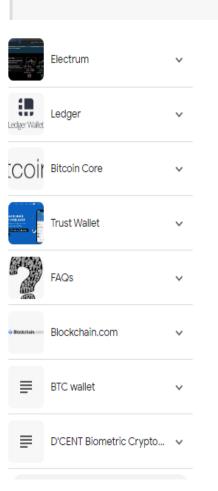
Centralized

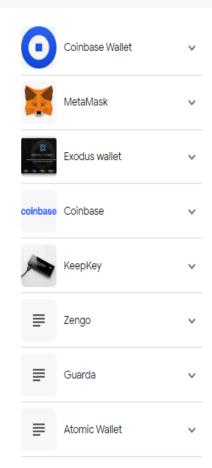
USDT (Tether)

XRP

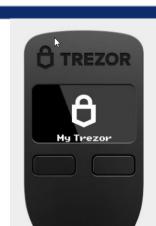
BNB Binance Coin





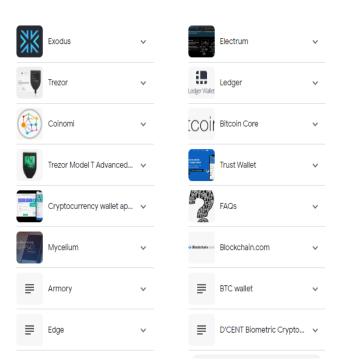


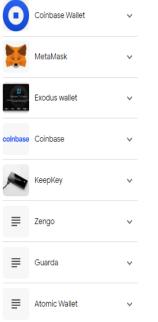


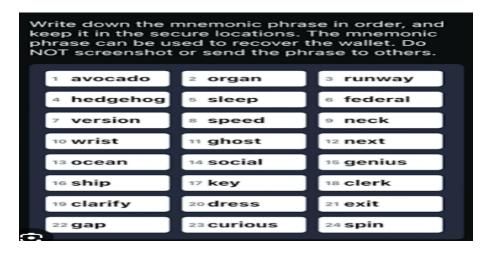


Storage vs Seed Phrase











Seizures





A Seed Phrase Only works with the same software that was used to create the wallets











MultiBit HD





Armory



Bitcoin Wallet

breadwallet

Bither















Electrum

mSIGNA

Hive

Mycelium

BitGo

Green Address











Purchases





Amazon.com

https://www.amazon.com > cryptocurrency-hardware-w...

Cryptocurrency Hardware Wallet



Model One - The Original Cryptocurrency Hardware Wallet, Bitcoin Security, Store & Manage Over 7000

Coins & Tokens, Easy-to-Use Interface, Quick & Simple Setup ...

30-day returns



Amazon.com

https://www.amazon.com > Magnetic-GPS-Tracker-Box...

Magnetic GPS Tracker Box - Under Vehicle ...

Magnetic GPS Tracker Box - Under Vehicle Waterproof Case, Great Waterproof Hide A Key Strong Magnet Holder (Fits Most Brands, Spytec...

★★★★ Rating: 4.3 · 15 reviews · \$15.99 · \$5.99 delivery · 30-day returns

In stock

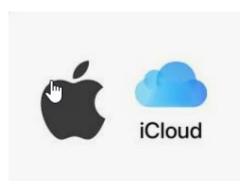


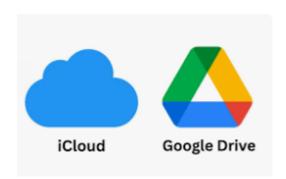
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Search Warrants













Search Warrants





Forensics TEAM



Common locations for locating Seed Phrases:

- Screenshots/Photos/Text files stored in:
 - Emails accounts (sent/drafts)
 - Photo apps (Apple Photos, Google Photos)
 - Messaging apps (iMessage, WhatsApp, Signal etc)
 - Desktop/documents folders
 - Cloud storage (Google docs, iCloud)
- Password keepers (LastPass, Keepass etc)

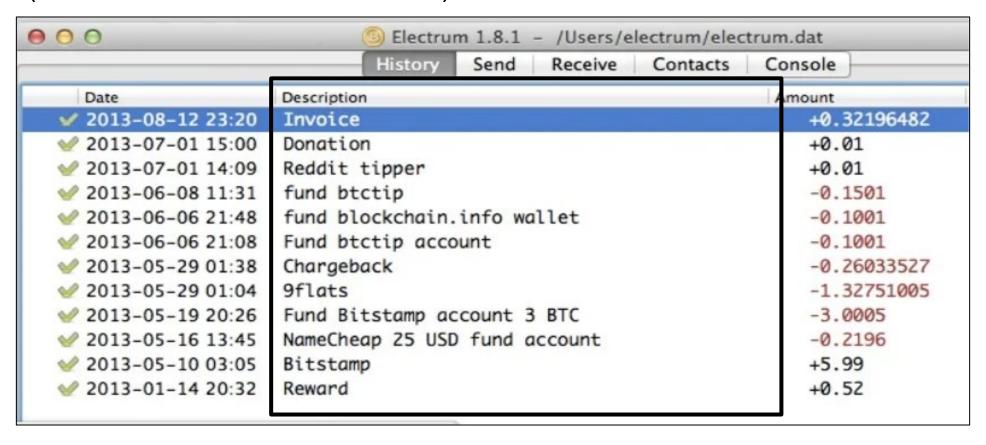






Wallet analysis and exploitation

The transaction description field frequently contains great evidence (usernames and other notes etc):











address,private_key

bc1qmh5dqqt7p3d8rtdhcnkq5l5s0a9j67t3q68nhl,p2wpkh:L3aNpS11GGHuajeR9YDYZ6pnfqcwoZSkhTptKLhqKLcXTnGEokdU bc1qdur2kntqtdzzwq03y4p6tepvpt7jkmcqxtt6y2,p2wpkh:L3uRGnminFkXZnvDcZqvv13rb6b293qDvyew4arTpNv3pKQk6AiFQ bc1qdmkqsm625rzda04y58d3ltspu72lm9shqxu45e,p2wpkh:KwxBKW33PYszdvPDKSZU57dKEtHtgxtVJHTujA8wTcHsktP7iKDh bc1qd9ef2fe4z93smxwz7ltrl9zk5j8xvq0n68ky7s,p2wpkh:L15P4iKM4EUyzBWqTDPEXtAM0i4MAdPq13N9KJqGXpmBgXvGDk5V

bc1qmh5dqqt7p3d8rtdhcnkq5l5s0a9j67t3q68nhl, p2wpkh:L3aNpS11GGHuajeR9YDYZ6pnfqcwoZSkhTptKLhqKLcXTnGEokdU

Public Key: bc1qmh5dqqt7p3d8rtdhcnkq5l5s0a9j67t3q68nhl

Script Type: p2wpkh

Private Key: L3aNpS11GGHuajeR9YDYZ6pnfqcwoZSkhTptKLhqKLcXTnGEokdU

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To restore your wallet from its seed phrase, create a new wallet, select the type, choose "I already have a seed" and proceed to input your seed phrase.





Read the Docs

https://electrum.readthedocs.io > latest > faq :

Frequently Asked Questions — Electrum 3.3 documentation





The Truth About Seizures

- Most all virtual currency seizures will require the cooperation of the subject
- Every seizure is different and it is difficult to establish repeatable processes
- Each seizures will likely require working with many of the following:
 - Private Keys
 - Electrum, Metamask, etc (No KYC WALLETS)
 - Many different smartphone wallet applications , Computers
 - Alt coins (Gas Fees)

Determining which private keys, seed keys, and master keys go with which wallet (Electrum, Metamask, Bitcoin Core, or other alt coins etc) will require experimentation





Things to Know

Working with "keys" notes:

- When restoring a wallet from "keys", be aware subjects will frequently create "fake" wallet accounts with a small amount of crypto and then hide the real balance in another wallet account
- Depending on the timeframe (i.e. before 2019), don't forget to check historical balances including:
 - Bitcoin Cash (BCH, August 2017) = STOCK SPLIT

<u>Note</u>

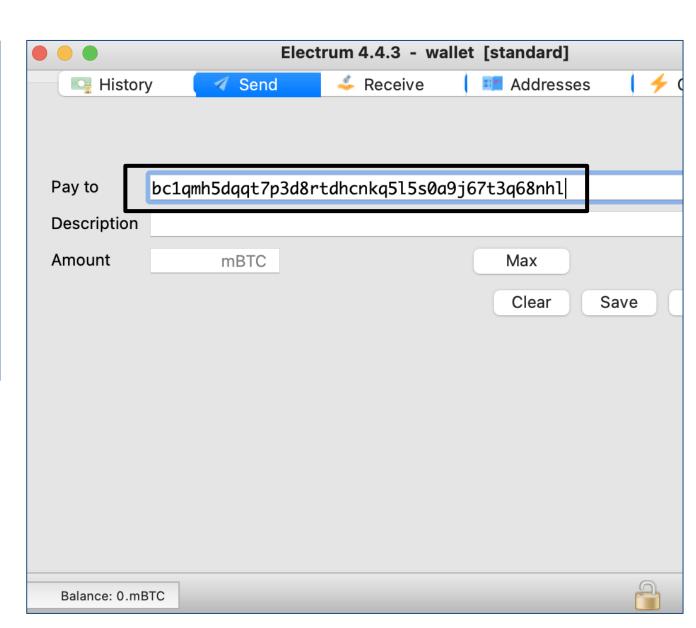
Don't forget to take screenshots or screen video captures of the process for evidentiary and memo purposes.





IRS:CI

- Copy and paste the receiving address to avoid manual transcription issues
- 2 people should independently verify the receiving address
- Start with a small test transaction (0.01 BTC)

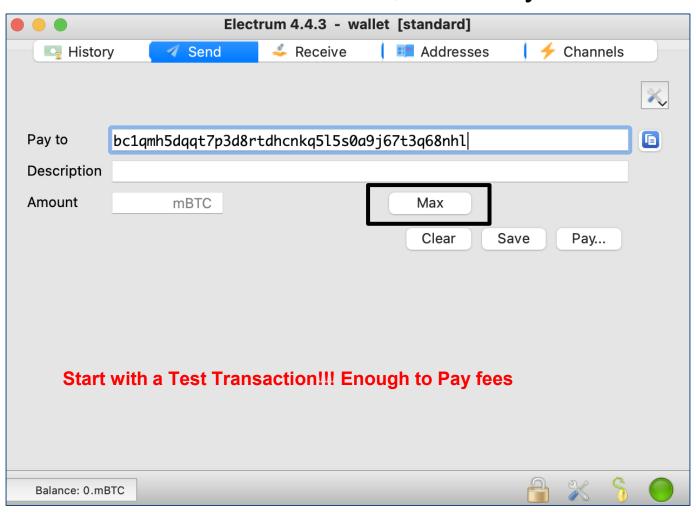








Use the "Max" transaction fee, but verify it is reasonable







Do a Test Transaction

- After sending the Test transaction, use a public blockexplorer to monitor the transaction status, (blockchair.com; Blockchain.com; Blockexplorer.com)
- Blocks clear *on average* every 10 min, but not always in practice
 - Observed many 20 to 40+ minutes blocks during seizures
- One Test Transaction is Confirmed on Blockexplorer and you Check wallet where VC was sent, than conduct the seizure of full amount. (Repeat Steps)









What are things to think about when Transferring the BTC to GOV WALLETS?

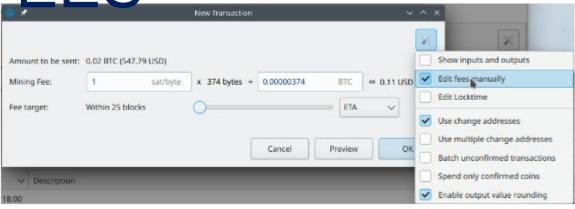








FEES



Wallets with no KYC

- Electrum
- MetaMask
- Wasabi
- Edge

VS

Exchanges



Seizing Centralized VC



Circle Confirms Freezing \$100K in USDC at Law Enforcement's Request

Tether welcomes inquiries from law enforcement agencies about its policies and procedures. Please contact Tether at inforequests@tether.to.

In my experience, Circle (USDC), Tether (USDT) and Binance freeze funds for 7 days without a legal order If you can show probable cause of a crime.

After 7 days have passed, legal order is required.







- Every seizure is different. It requires severe research of target habits, and research into the VC.
- Social Media and Purchasing Habits can be crucial to identify how VC is stored
- Seizures frequently require assistance from the subject to recover the VC, and a Team
- Experimenting yourself with buying Crypto has been vital for me to learn this process





Virtual Currency Seizures



