







MELAND SECUR

Homeland Security Investigations (HSI)

Established in 2003 with the creation of the U.S. Department of Homeland Security (DHS).

One of the three components of the U.S. Immigration and Customs Enforcement (ICE).

The largest criminal investigative agency within the Department of Homeland Security (DHS). Combine legacy agencies' statutory authorities.

Over 126 domestic field offices and 72 international offices.





Criminal Exploitation of Digital Currencies





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What is a Virtual Currency?

- An alternative financial value system involving the exchange of funds to purchase precious metals or other value base which can later be used in exchange for products and services.
- Is not registered anywhere and it is not governed by any law other than arbitration private forums.
- Personal data is not required.
- The system focuses strictly on activities of the forum.
- Information stored for two months and then permanently deleted.



Types of Virtual Currencies

- E-Currency / E-Wallets
- **Digital Gold**
- Virtual World
- Virtual Games
- Merchants (FB, Amazon)

Crypto-Currencies **



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- Created in 2008 by Satoshi Nakamoto
 - A purely peer-to-peer version of electronic cash would allow payments to be sent directly from one party to another without going through a financial institution....
- Digitally created units of currency.



• Sent from one address to another in the same way you might send cash from your bank account to a friend, but no name would be needed as part of the address.



• Instead: human-readable strings of numbers and letters thirty-three characters length, always beginning with the digit one or three. Therefore:



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175tWpb8K1S7NmH4Zx6rewF9WQrcZv245W

Might send 1.30000001 BTC to

132tQpb(K1B5NmH8Vx2rewF9AOrcKv215H

- The transaction is instantaneous and does not travel through a third party such as a bank.
- The owners of the addresses will need to keep in an account known as a wallet (computer or phone).



How To Acquire Bitcoins?

Locate and download to your computer, tablet or phone a **<u>bitcoin wallet.</u>**

Create your wallet account (anonymity)





Used to store and transfer your crypto-currency







How To Acquire Bitcoins?

Purchase a bitcoin from an **exchanger.**

A web-based platform for users to sell and buy crypto-currencies. Domestic (MSB's and BSA) and Foreign. <u>Offer anonymity.</u>

Send Currency to an Exchanger:

- Bank account
- PayPal
- Western Union
- Cash
- Money transmitter.









DcalBitcoins.com Buy bitcoins Sell bitcoins Post a trade Forums NEW

Info -

Sign up free 🔒 Log in

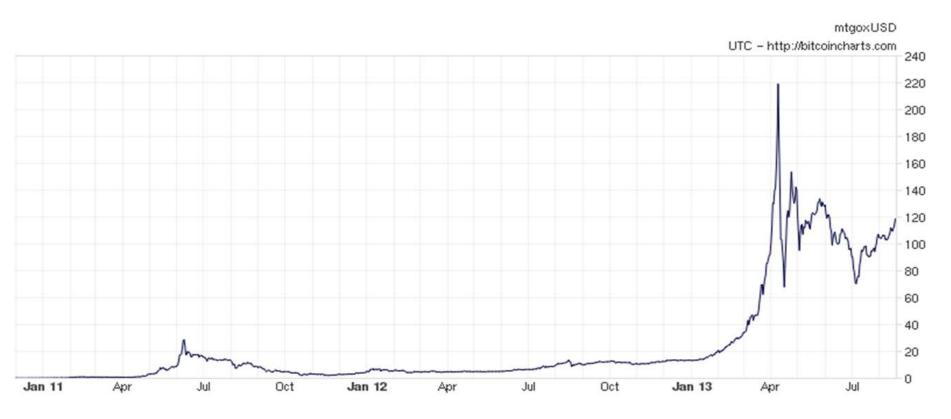
Buy bitcoins with cash in US Dollar (USD)

LocalBitcoins.com user jdev wishes to sell bitcoins to you.

Price:	107.62 USD / BTC	Terms of trade with jdev Contact hours: 11am-6pm Mon-Saturday				
User:	jdev (feedback score 100 %, see feedback)					
Trade limits:	300 - 5000 USD	Meeting preferences: Starbucks, chipotle, or something in or				
Location:	Baltimore, MD 21230, USAor look up other cities in United States	around Federal Hill				
		Sell bitcoins online in Venezuela				
How much you	u wish to buy?	Puerto Rico				
USD 300	BTC 2.79	Cities with cash trade (total 11)				
		• San Juan (4) • Cayey (1)				
Send trade request		Online trade				
	Send trade request	 Buy bitcoins online in Puerto Rico Sell bitcoins online in Puerto Rico 				
l Please 占 log in or	r 🗹 sign up to begin trading instantly.	Palestine, State of				
Signing up is free and takes only 30 seconds.		Cities with cash trade (total 2)				
		Online trade				
		 Buy bitcoins online in Palestine, State of Sell bitcoins online in Palestine, State of 				

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The price of a bitcoin is determined by supply and demand. When demand for bitcoins increases, the price increases, and when demand falls, the price falls.

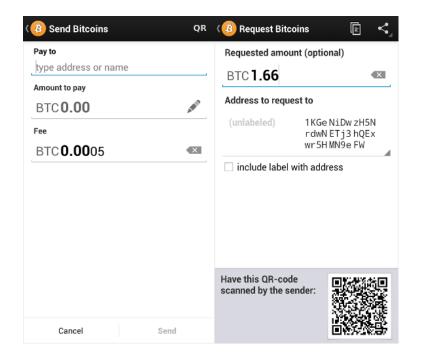


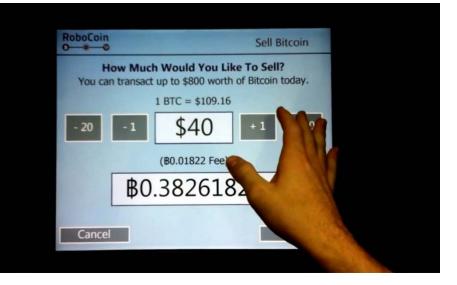


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How To Acquire Bitcoins?







- Block Chain Shared public transaction log on which the entire BTC network relies. (<u>http://blockchain.info</u>)
 - All confirmed transactions are included in the BC-Ensures verification and enforced with cryptography.
 - Every 10 minutes a new block is created and 25 BTC are released. By 2017 it will be reduced to 12.5 BTC a halved every four years until the limit of 21 million BTC is reached.





When to File a SAR?

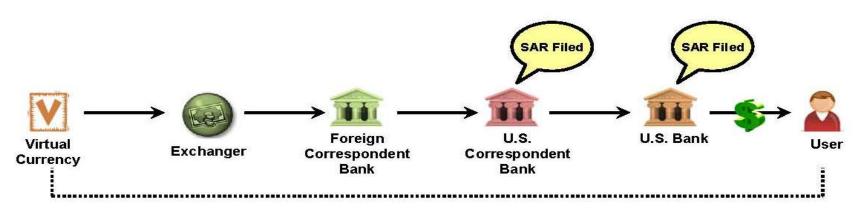


	Suspicious	
Previous e	Activity Report March 2011 dtions will not be accepted after September 30, 2011	FRB: FDIC: OCC: OTS: NCUA:
	TREASURY:	
	x below only if correcting a prior report. orrects Prior Report (see instruction #3 under "How to M	ake a Report")
Part I	Reporting Financial Institution In	formation
2 Name of	Financial Institution	



From Cash to Bitcoins / SAR's SAR Filed SAR Filed SAR Filed User U.S. Bank Money U.S. Bank U.S. Foreign Exchanger Virtual (User) Transmitter (Money Correspondent Correspondent Currency Transmitter) Bank Bank

From Bitcoins to Cash / SAR's





How Criminals Use and Exploit Crypto-Currencies Bitcoins





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Criminal Exploitation of Crypto-Currencies

Virtual Currency Systems & Exchange Makers



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How I Get into the Black Market?

STEP BY STEP GUIDE TO GETTING STARTED ON THE BLACK MARKET RELOADED.

- 1. Head to www.blockchain.info/wallet and click create wallet
- Time to purchase some <u>bitcoins</u>. Bitcoins are the <u>currency used</u> on TSR so head to <u>www.mtgox.com</u> and sign up for a free <u>account</u>. You can come back later to buy the bitcoins once you know how many you need
- After you've gotten a feel for what the bitcoins will cost you, its now time to access The Silk <u>Road</u>. To do this you will need the tor browser. The tor browser provides added security to browsing and gives access to websites using the .onion extension You can get tor from here www.torproject.org
- 4. With tor installed and the tor browser running, copy this link into the address bar <u>http://5onwnspjvuk7cwvk.onion</u> Click on create user and there you go, access to The Black Market Reloaded :)



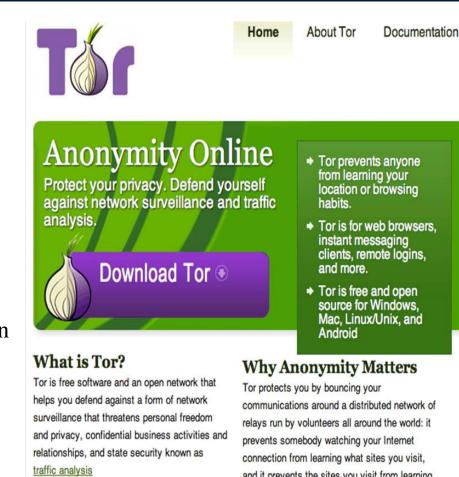
Tor

- Tor stands for "The Onion Router"
- Tor is free & open source software
- Originally designed by the U.S. Naval Research Laboratory for the protecting government communications
- Download from "www.torproject.org"
- Prevents anyone from learning location or browsing habits
- Tor is for web browsers, instant messaging, & remote logins

• Tor works by bouncing your communications around a distributed network of relays run by volunteers



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Learn more about Tor »

and it prevents the sites you visit from learning your physical location. Tor works with many of your existing applications, including web browsers, instant messaging clients, remote login, and other applications based on the TCP protocol.

Get involved with Tor »

Carding Forums





Drug Forums

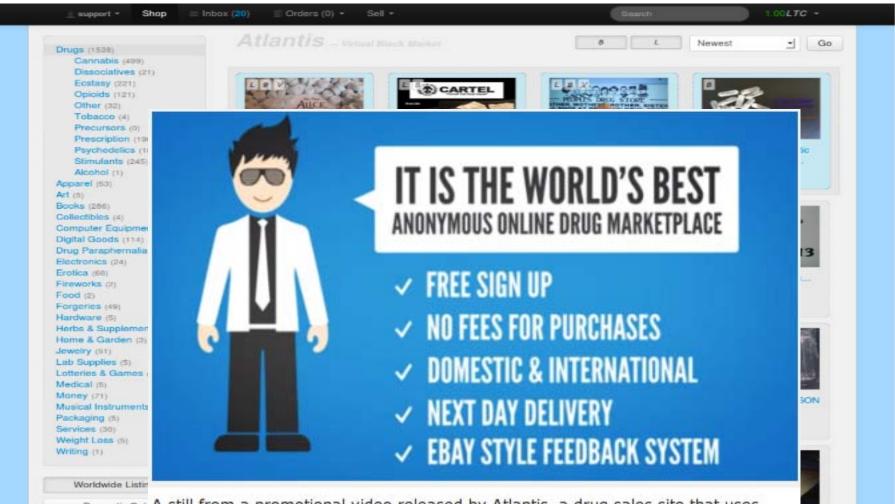
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Road forums		simplemachines forum					News
Guest. Please login or register.		Sunt				The second secon	- Ack
Hep Search Login Register			5 Androlic (British Disp.), 10 37 tabs x 50mg \$130.95	HIGH GRADE WEED **new***(56g) BUDWORX \$337.90	HIGH GRADE WEED (NOT SKUNK/BUD) 100G \$763.10	Suboxone Strips 8mg/2mg \$22.00	
as foruns sesion	_		DISPATER	1000-0	Blumorgroup	1 Aler	
Silk Road discussion	8/213 POSTS	Last post by OneBadDream In Re: Question for mushroo on Today at 03:11 pm	nt 71	(B)	00	HAIS	
Security Tor, Bitcoin, cryptography, anonymity, security, etc.	6/2/1 Posts	Last post by fbny71 in Re: tormail emails conte on Today at 03:17 pm	363 COCAINE 1G	5g MDMA 82%+ High Quality -Made in Germany-	y 30mg Oxycodone (15)	Adi 711.150.0 0.5G MDMA 87% Purity. TOP PRODUCT !	
Legal Drug laws, money transmission, legal defense, etc.	154 P0505	Last post by Candy in Re: How to handle police on Today at 01:07 pm	\$105.96	\$261.28	\$415.00	\$25.31	
Shipping All about packaging, shipping, and accepting delivery	34363 P0515	Last post by Intratemestrial In Re: Has anyone here ever on Today at 01:14 pm	PABB33		MISTER'S	and the	
Drug safety Harm reduction, best practices, etc.	4/403 POSIS	Last post by grbr6 in Re: tolerance to psychad on Today at 03:01 pm	ts 7	3	MUNISAR		
¹ Philosophy, Economics and Justice Home of DPR's Book Club	10368 P0515	Last post by wavelength in Re: The notomb political on Today at 03:00 pm	2x Subutex 8mg buprenorphine tablets	1 LSD Blotter	.25g Black Tar Heroin [High Quality Free Shipping]	Honeycomb - 95% MEDICAL PURE THC- 1G (Blue	
Off topic Post anything here that doesn't belong in the other topics	135048 POStS	Last post by mary666 in Re: Official Spare Coins on Today at 03:15 pm	8 S65.85	\$12.10	\$40.61	\$125.53	
Newbie discussion	344203 F0813	Last post by Poobanator In Re: free pass to 50 post	3				

Law Enforcement Sensitive

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community forums | wiki | support



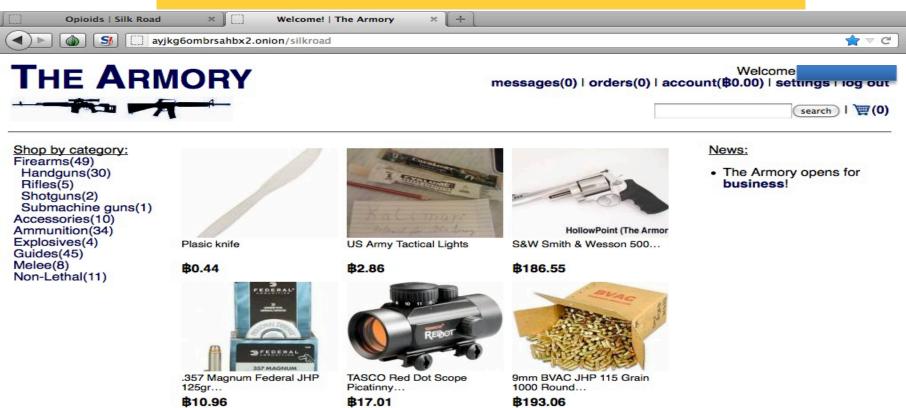
Domestic Ont A still from a promotional video released by Atlantis, a drug sales site that uses tools like Tor and Bitcoin to hide users' identities. The ad has since been removed from YouTube.

You Tube



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Weapons Forums



become a seller | how does it work? | community forums | contact us



HSI's Investigative Approach to Crypto-Currencies

- 1. Build the capacity of field agents to identify virtual currency exchangers and online black markets.
- 2. Exploit the financial angle and employ financial investigative tools in all HSI investigations, to include cyber enabled crime.
- 3. Coordinate Anti-Money Laundering regulations related to virtual currency with FinCEN and Treasury.
- 4. Engage HSI International Operations Attachés to leverage international counterparts and multilateral organizations to create enforcement actions against and regulate virtual currency exchangers.
- 5. Continue to enhance HSI's engagement with academia and subject matter experts in an effort to develop tools and capabilities to combat TCO's who hide behind online anonymity.





The Real Exploit of Crypto-Currencies & Bitcoins





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Liberty Reserve Case Study



- ۵
- Create Account

 Login Get protected by LibertyGuard

Rep

LibertyGuard

Services new!

Service Fees

Buy/Sell LR

Merchants

Downloads

Consumer Alert





Featured Merchants

<u>Marketiva.com</u> — Popular Forex company! <u>Instaforex.com</u> — Award winning forex. <u>Masterforex.org</u> — Award winning forex.

Featured Exchange Services

<u>wm-center.com</u> (English, Russian) — Fast and reliable service 24/7. <u>e-Naira.com</u> (English) — Reputable exchanger located in Africa. <u>ExchangeZone.com</u> (English)

Wholesale Exchange Services

<u>eCardOne.com</u> (English, Italian, Spanish, German, Czech) — Author <u>Ebuygold.com</u> (English, Chinese) — Authorized wholesaler <u>SwiftExchanger.com</u> (English) — Official Liberty Reserve merchant v



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- Established in Costa Rica on May 8th, 2006 by Arthur Budovsky and others.
- Centralized digital currency service that allowed users to register and transfer money to other users with only a name, e-mail address, and birth date. No verification. For .75\$ cents the user can hide his/her account information.
- Deposits made to third-parties (exchangers located in Russia, Nigeria and Vietnam) using a credit card or bankwire, among other deposit options. NOT DIRECTLY to Liberty Reserve.
- Deposited funds were "converted" into Liberty Reserve Dollars or Liberty Reserve Euros, which were tied to the value of the US dollar and the euro or to ounces of gold.
- No limits were placed on transaction sizes. They charged a small fee, about 1% on each transfer. Offered shopping cart functionality and other merchant

services.



The Merchants at Liberty Reserve

- 19 of merchants involved in selling stolen credit card data or personal identification information
- 7 Websites involved in **fraudulent investment** or **gambling operations**
- 5 websites were "**privacy**" and "security" services used by cybercriminals
- 2 websites were **pre-paid credit/debit card** sites





Dollar Amount of Liberty Reserve Activity

- \$6 Billion dollars laundered
- 55 million transactions
- 1 million users







End Result...

Indictment charges the seven principal employees, as well as Liberty Reserve itself, with money laundering and operating an unlicensed money transmitting business. The charges were leveled using a provision of the U.S . Patriot Act, since Liberty Reserve was not an American company.







ARRESTED IN SPAIN MILLIONS OF DOLLARS LOST!



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Silk Road Case Study









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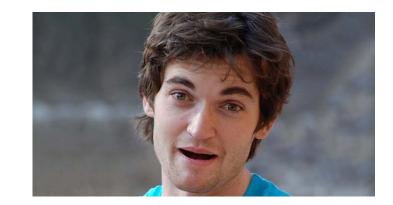
What is Silk Road?

• Silk Road is a website located on the on an encrypted network **Tor** . Founded by Ross William Ulbricht AKA Dread Pirate Robert (DPR)

- The website is a digital black market that allows users to purchase illegal drugs using anonymity technology and utilizing a sophisticated user-feedback system like eBay.
- The only currency allowed on Silk Road to be exchanged for drugs/contraband are **bitcoins. SR profited charging a fee for each transaction.**



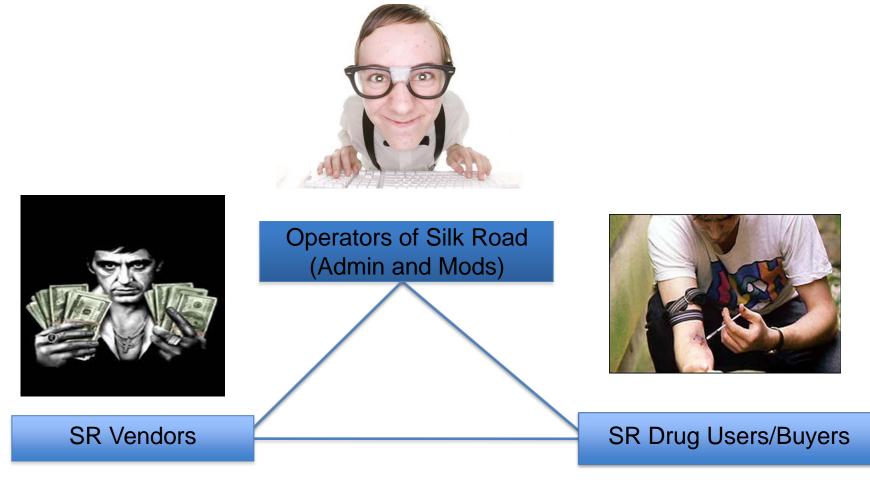








Who are the players on Silk Road?



+150,000 User accounts on Silk Road (2012)



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Mt. Gox Seizure - \$5,032,921

- During the course of investigation Mt. Gox was identified as the Silk Road money exchanger and conducting business as a Money Service Business (MSB). Mt. Gox is the largest BTC Exchange (80%)
- Baltimore Silk Road Task Force executed 3 Federal seizure warrants (Wells Fargo Bank and Dwolla)
- On May 9, 2013 USSS/Baltimore SR Task Force seized **\$2,117,414**
- On May 14, 2013, HSI Baltimore seized **\$2,915,507**





Key Points regarding Silk Road

- Estimated \$1.2 billion in transactions on Silk Road
- Over +950,000 user accounts registered
- The largest trafficked website on Tor
- All types of contraband were sold on SR (Firearms, explosives, fraudulent IDs, stolen CC info, & IPR)







Indictment of DPR

On May 1, 2013 JOHN DOE aka DREAD PIRATE ROBERTS was indicted in the by District of Maryland for Use of Interstate Commerce Facilities in Commission of Murder-for-Hire; Conspiracy to Distribute a Controlled Substance; Attempted Witness Murder; Aiding and Abetting

Still Ongoing...

Bitcole Exchange CEO Arrested for Alding Silk

Road Drug Site LAPTOPS / TABLETS / PHONES / APPS / SOFTWARE



3. 2014 05:37pm EST 2 Comments



The CEO of a bitcoin exchange and a bitcoin exchanger were arrested this week for their allege involvement in the black market Internet site Silk Road, the Manhattan U.S. Attorney announced this week.

Charlie Shrem, 24, who ran BitInstant from 2011 to 2013, is charged with running a scheme that provided over \$1 million in bitcoins to users of Sil Road, which the feds shut down in October.

Robert M. Faiella, 52, an underground Bitcoin exchanger who went by BTCKing, is accused of running an underground bitcoin exchange on Silk

Road from Dec. 2011 to Oct. 2013, selling bitcoins to those looking to buy drugs on the site anonymously.



3 new arrests in Silk Road case

By James O'Toole @jtotoole December 20, 2013: 6:07 PM ET



3 TOTAL SHARES

3

NEW YORK (CNNMoney)

Federal authorities have announced new charges against three men allegedly assoc market.

An indictment unsealed this week in New York accuses the trio of helping to operate October that offered an anonymous place to buy drugs, weapons and other illicit pro



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Homeland Security Investigations Illicit Finance and Proceeds of Crime Unit The Exploitation of Interstate Funnel Accounts

Interstate Funnel Account Evolution

Dramatic increase of suspicious activity reports (SARs) concerning interstate funnel account usage:

- In 2008, banks filed approximately **1,000** SARs which denote funnel account activity in the U.S.
- That figure steadily increased to over **15,188** SARs filed in 2011.
- A check of SAR filings on funnel accounts in the past six months, from November 2012 until May 2013, yielded over **12,000** results.

According to AML officials, interstate funnel accounts are the **second most** generated SAR, behind structuring.

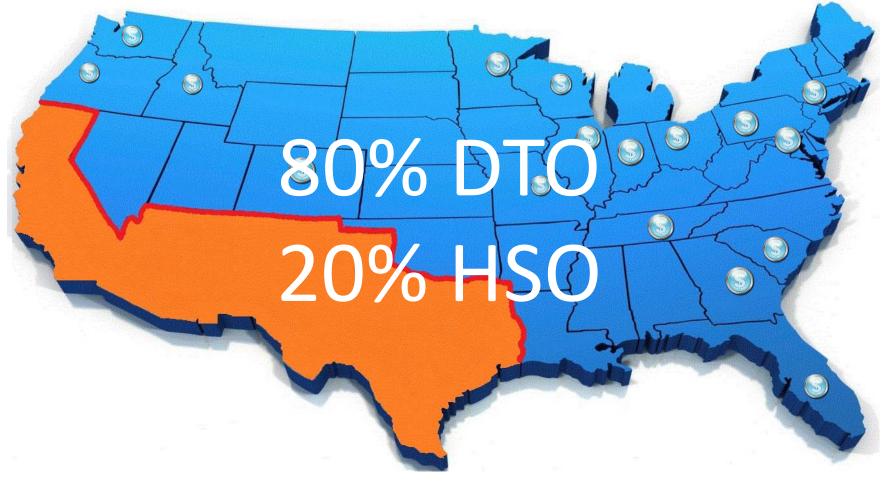


Interstate Funnel Account Definition

Interstate Funnel Account is defined as a bank account opened/held by a nominee that receives **cash deposits** from an out of state, unidentified third party that are readily available for withdrawal from the domiciled account.



Interstate Funnel Account SAR Activity





Rapid movement of funds for little or no costDeposits lower denominations while withdrawals are for high denominationsCriminal organizations avoid highway, airport and parcel interdictionWithdrawals are free from narcotic smells or residues, less likely to be identified by K-9More secure than smuggled cash	Benefits of Interstate Funnel Accounts							
	movement of funds for little	denominations while withdrawals are for high	organizations avoid highway, airport and parcel	are free from narcotic smells or residues, less likely to be identified	than smuggled			



Interstate Funnel Accounts



Criminal Organization Account Manager

Funds are ultimately transferred to Mexico (BCS or wire transfer) to further conspiracy





Homeland Security Investigations Contacts Depositors (Phone, text message, email, etc.)











Straw Account

and delivers the

Manager.

funds to Account

Holder withdraws

Funnel Account Holder

Gilberto Figueroa Rios

Section Chief Financial, Narcotics and Special Operations Division Illicit Finance and Proceeds of Crime Unit

500 12th St. SW Washington DC 20536 Tel. 202-732-5788 desk 202-271-8147 cell Gilberto.figueroa-rios@ice.dhs.gov

San Juan Field Office 787-729-6969







Thank You!!!

Protecting the Borders Against Illicit Trade, Travel, and Finance



National Security Archive,

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