BITCOIN FORENSICS: FACT OR FICTION?

NEYOLOV EVGENY

MARKET PRICE

BITCOIND DAEMON

- Protocol
- Command line
- Remote procedure calls
- Graphical user interfaces

USAGE

- Wallet = address + address + address + …
- 1HB5XMLmzFVj8ALj6mfBsbifRoD4miY36v
- Coins 0.00000001 – 1 BTC

TRANSACTIONS

- Public key ~ address
- Private key ~ signature
- Transactions -> blocks -> block chain

NOTHING IS ENCRYPTED

- Encryption vs Cryptography
- Anonymity vs Privacy

INVESTIGATION SCOPE

- Client software
- Network communications
- Transactions database
- Surrounding ecosystem

WALLETS

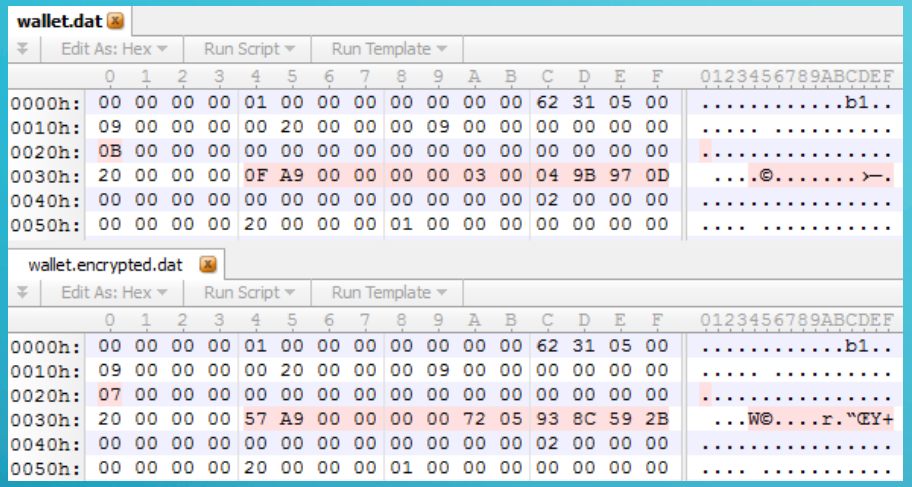
- Desktop: Bitcoin Core, MultiBit, Hive, Armory, Electrum
- Mobile: Bitcoin Wallet, Mycelium Wallet
- Web: Blockchain Info, BitGo, GreenAddress, Coinbase, Coinkite

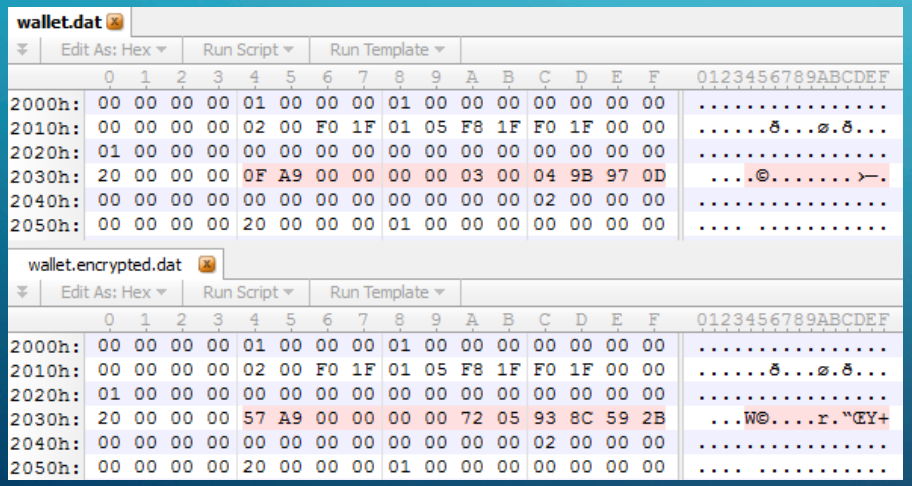
DEBUG.LOG

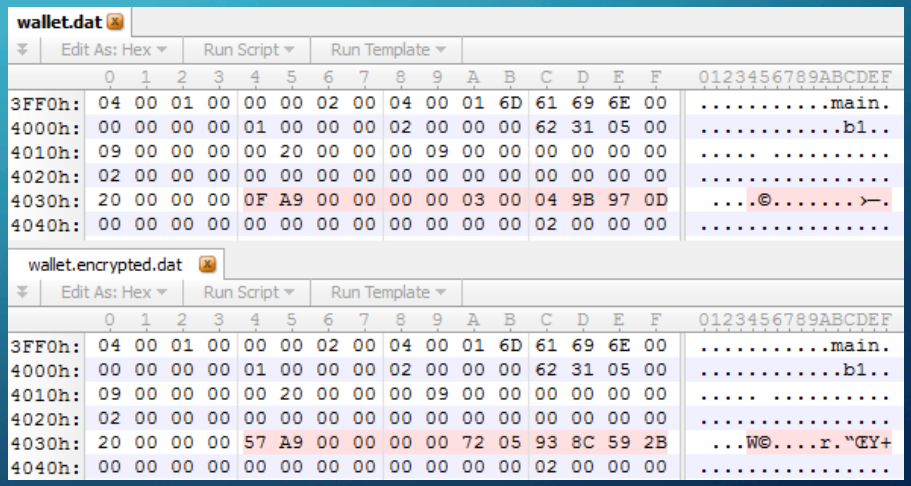
```
2014-05-29 18:53:06 CommitTransaction:
CTransaction(hash=5c068ca95357950b04cf515ee4c70d2f2addbd5a17c6c062f56bb1d11579881f, ver=1, vin.size=1, vout.size=2, nLockTime=0)
    CTxIn(COutPoint(ee175e8d7957746636edd4d3d503d360376c8a8db2e0bd3066a871b7c1994852, 1), scriptSig=304402205f2e2cd56ffa1fe1)
    CTxOut(nValue=0.00654321, scriptPubKey=OP_DUP OP_HASH160 5b6624433659)
    CTxOut(nValue=0.00335679, scriptPubKey=OP_DUP OP_HASH160 0c679bc044d7)
keypool keep 2
2014-05-29 18:53:06 AddToWallet 5c068ca95357950b04cf515ee4c70d2f2addbd5a17c6c062f56bb1d11579881f  new
2014-05-29 18:53:06 WalletUpdateSpent found spent coin 0.01bc ee175e8d7957746636edd4d3d503d360376c8a8db2e0bd3066a871b7c1994852
2014-05-29 18:53:06 NotifyTransactionChanged ee175e8d7957746636edd4d3d503d360376c8a8db2e0bd3066a871b7c1994852 status=1
2014-05-29 18:53:06 NotifyTransactionChanged 5c068ca95357950b04cf515ee4c70d2f2addbd5a17c6c062f56bb1d11579881f status=1
2014-05-29 18:53:06 Relaying wtx 5c068ca95357950b04cf515ee4c70d2f2addbd5a17c6c062f56bb1d11579881f
2014-05-29 18:53:06 NotifyAddressBookChanged 19LGrPCy7WQbSAgkg1XFxNM1zcBisSFgxr hitb isMine=0 status=0
```

```
2014-05-29 18:53:05 AddToWallet 5c068ca95357950b04cf515ee4c70d2f2addbd5a17c6c062f56bb1d11579881f  new
2014-05-29 18:54:25 AddToWallet 5c068ca95357950b04cf515ee4c70d2f2addbd5a17c6c062f56bb1d11579881f  update
2014-05-29 18:54:25 UpdateTip: new best=000000000000000063d631fc654c68737fff08a0066f6e5c281d74fcad96fa7b  height=303207  log2_wo
2014-05-29 18:54:25 AddToWallet 5c068ca95357950b04cf515ee4c70d2f2addbd5a17c6c062f56bb1d11579881f
2014-05-29 18:54:25 ProcessBlock: ACCEPTED
2014-05-29 18:54:29 ERROR: AcceptToMemoryPool : nonstandard transaction: dust
2014-05-29 18:56:53 ResendWalletTransactions()
2014-05-29 18:58:59 ERROR: AcceptToMemoryPool : nonstandard transaction: dust
2014-05-29 18:59:48 socket recv error 10054
2014-05-30 00:13:04 ERROR: AcceptToMemoryPool : nonstandard transaction: dust
2014-05-30 00:13:26 AddToWallet e70e081bb9feddafc5dc7903e07c77d4f2419d8aa24969fbe92fa8cf2785aea9  new
```

WALLET.DAT


wallet.dat
Edit As: Hex
Run Script
Run Template
0 1 2 3 4 5 6 7 8 9 A B C D E F 0123456789ABCDEF
0000h: 00 00 00 00 01 00 00 00 00 00 00 00 62 31 05 00 ....b1..
0010h: 09 00 00 00 00 20 00 00 00 09 00 00 00 00 00 00 ....
0020h: 0B 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ....
0030h: 20 00 00 00 0F A9 00 00 00 00 03 00 04 9B 97 0D ...©.....›—.
0040h: 00 00 00 00 00 00 00 00 00 00 00 00 02 00 00 00 ....
0050h: 00 00 00 00 20 00 00 00 01 00 00 00 00 00 00 00 ....
wallet.encrypted.dat
Edit As: Hex
Run Script
Run Template
0 1 2 3 4 5 6 7 8 9 A B C D E F 0123456789ABCDEF
0000h: 00 00 00 00 01 00 00 00 00 00 00 00 62 31 05 00 ....b1..
0010h: 09 00 00 00 00 20 00 00 00 09 00 00 00 00 00 00 ....
0020h: 07 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ....
0030h: 20 00 00 00 57 A9 00 00 00 00 72 05 93 8C 59 2B ...W©....r.“ŒY+
0040h: 00 00 00 00 00 00 00 00 00 00 00 00 02 00 00 00 ....
0050h: 00 00 00 00 20 00 00 00 01 00 00 00 00 00 00 00 ....


wallet.dat
Edit As: Hex
Run Script
Run Template
0 1 2 3 4 5 6 7 8 9 A B C D E F 0123456789ABCDEF
2000h: 00 00 00 00 01 00 00 00 01 00 00 00 00 00 00 00 ....
2010h: 00 00 00 00 02 00 F0 1F 01 05 F8 1F F0 1F 00 00 ......ð...ø.ð...
2020h: 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ....
2030h: 20 00 00 00 0F A9 00 00 00 00 03 00 04 9B 97 0D ...©.....›—.
2040h: 00 00 00 00 00 00 00 00 00 00 00 00 02 00 00 00 ....
2050h: 00 00 00 00 20 00 00 00 01 00 00 00 00 00 00 00 ....
wallet.encrypted.dat
Edit As: Hex
Run Script
Run Template
0 1 2 3 4 5 6 7 8 9 A B C D E F 0123456789ABCDEF
2000h: 00 00 00 00 01 00 00 00 01 00 00 00 00 00 00 00 ....
2010h: 00 00 00 00 02 00 F0 1F 01 05 F8 1F F0 1F 00 00 ......ð...ø.ð...
2020h: 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ....
2030h: 20 00 00 00 57 A9 00 00 00 00 72 05 93 8C 59 2B ...W©....r.“ŒY+
2040h: 00 00 00 00 00 00 00 00 00 00 00 00 02 00 00 00 ....
2050h: 00 00 00 00 20 00 00 00 01 00 00 00 00 00 00 00 ....


wallet.dat
Edit As: Hex
Run Script
Run Template
0 1 2 3 4 5 6 7 8 9 A B C D E F 0123456789ABCDEF
3FF0h: 04 00 01 00 00 00 02 00 04 00 01 6D 61 69 6E 00 ....main.
4000h: 00 00 00 00 01 00 00 00 02 00 00 00 62 31 05 00 ....b1..
4010h: 09 00 00 00 00 20 00 00 00 09 00 00 00 00 00 00 ....
4020h: 02 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ....
4030h: 20 00 00 00 0F A9 00 00 00 00 03 00 04 9B 97 0D ...©.....›—.
4040h: 00 00 00 00 00 00 00 00 00 00 00 00 02 00 00 00 ....
wallet.encrypted.dat
Edit As: Hex
Run Script
Run Template
0 1 2 3 4 5 6 7 8 9 A B C D E F 0123456789ABCDEF
3FF0h: 04 00 01 00 00 00 02 00 04 00 01 6D 61 69 6E 00 ....main.
4000h: 00 00 00 00 01 00 00 00 02 00 00 00 62 31 05 00 ....b1..
4010h: 09 00 00 00 00 20 00 00 00 09 00 00 00 00 00 00 ....
4020h: 02 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 ....
4030h: 20 00 00 00 57 A9 00 00 00 00 72 05 93 8C 59 2B ...W©....r.“ŒY+
4040h: 00 00 00 00 00 00 00 00 00 00 00 00 02 00 00 00 ....

ADDRESSES

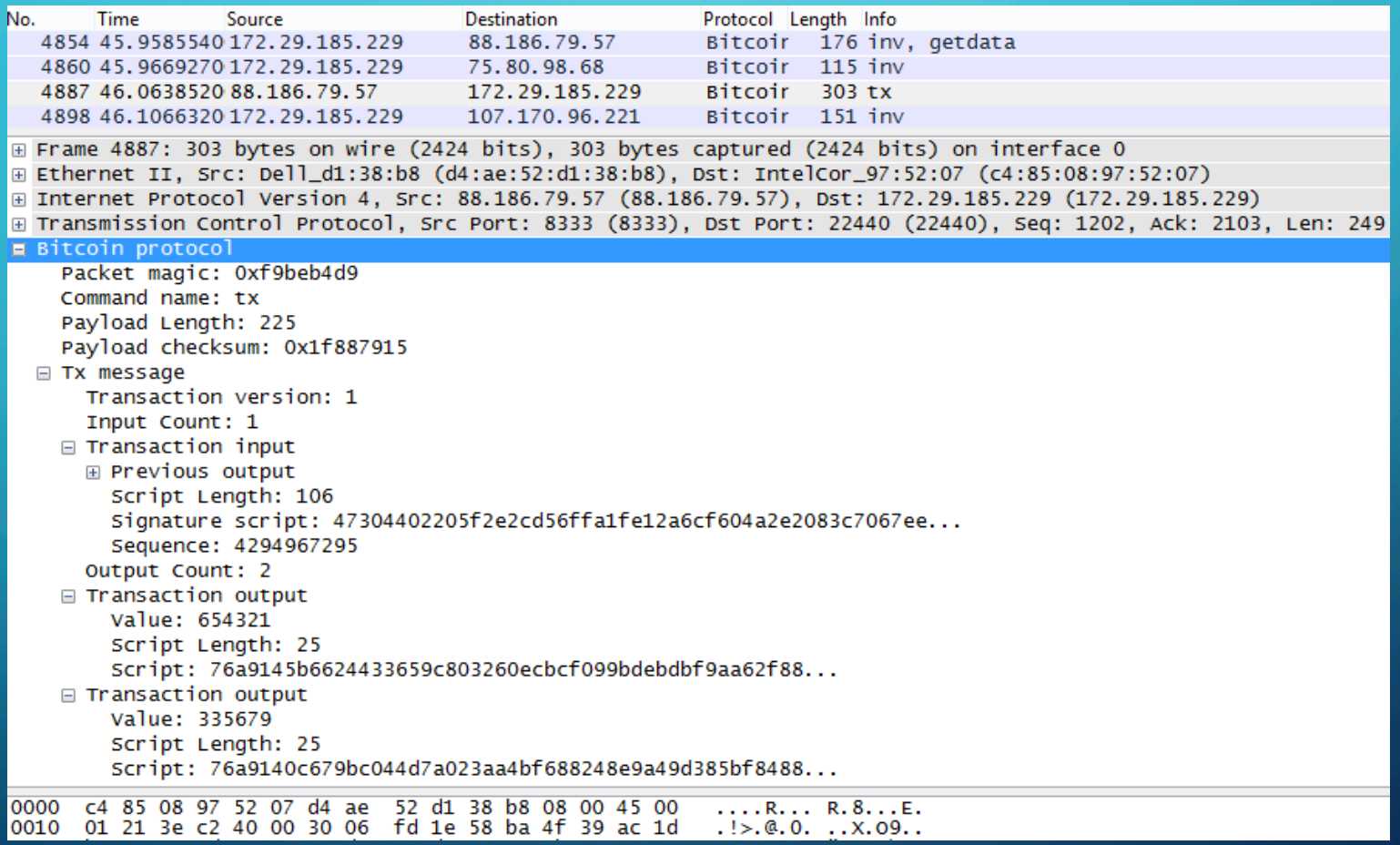
```
1:6E00h: 69 76 65 00 2B 00 01 07 70 75 72 70 6F 73 65 22  ive.+...purpose"
1:6E10h: 31 4D 68 4A 79 52 7A 4C 4E 62 67 43 36 6B 55 53  1MhJyRzLNbgC6kUS
1:6E20h: 61 4D 43 7A 45 71 42 7A 52 75 32 70 43 62 5A 5A  aMCzEqBzRu2pCbZZ
1:6E30h: 68 76 00 00 2E 00 01 F4 5F 01 00 D7 CB 87 53 00  hv.....ô_..×Ë‡S.
1:6E40h: 00 00 00 21 03 E4 77 92 23 12 40 77 CF 7E 2D D6  ...!.äw'#.@wÏ~-Ö
1:6E50h: 45 E1 B9 A9 CE 31 14 67 E7 83 3C 62 54 91 A9 75  Eá¹©Î1.gçƒ<bT'©u
1:6E60h: EE 9B 49 13 8F 6A 6D 6B 0D 00 01 04 70 6F 6F 6C  î›I..jmk....pool
1:6E70h: 6A 00 00 00 00 00 00 00 0C 00 01 01 00 00 00 D7  j..............×
1:6E80h: CB 87 53 00 00 00 00 37 2A 00 01 07 6B 65 79 6D  Ë‡S....7*...keym
1:6E90h: 65 74 61 21 03 E4 77 92 23 12 40 77 CF 7E 2D D6  eta!.äw'#.@wÏ~-Ö
1:6EA0h: 45 E1 B9 A9 CE 31 14 67 E7 83 3C 62 54 91 A9 75  Eá¹©Î1.gçƒ<bT'©u
1:6EB0h: EE 9B 49 13 8F 00 01 07 08 00 01 07 72 65 63 65  î›I.........rece
1:6EC0h: 69 76 65 07 2B 00 01 07 70 75 72 70 6F 73 65 22  ive.+...purpose"
1:6ED0h: 31 4E 39 67 71 76 58 6F 46 73 36 63 68 61 77 55  1N9gqvXoFs6chawU
1:6EE0h: 48 68 39 43 34 36 47 77 74 54 6D 52 62 4E 52 52  Hh9C46GwtTmRbNRR
1:6EF0h: 37 57 65 00 08 00 01 07 72 65 63 65 69 76 65 22  7We.....receive"
1:6F00h: 2B 00 01 07 70 75 72 70 6F 73 65 22 31 35 7A 33  +...purpose"15z3
1:6F10h: 5A 54 64 75 53 79 79 67 34 68 36 68 62 71 65 79  ZTduSyyg4h6hbqey
1:6F20h: 67 5A 52 76 53 5A 5A 6E 4E 36 62 55 34 6D 53 00  gZRvSZZnN6bU4mS.
1:6F30h: 08 00 01 07 72 65 63 65 69 76 65 00 2B 00 01 07  ....receive.+...
1:6F40h: 70 75 72 70 6F 73 65 22 31 34 37 55 45 64 65 4E  purpose"147UEdeN
1:6F50h: 5A 58 34 79 6F 66 62 51 4C 78 4B 79 6A 6D 6B 69  ZX4yofbQLxKyjmki
1:6F60h: 74 45 4A 31 33 63 53 42 53 65 00 00 2E 00 01 F4  tEJ13cSBSe.....ô
```

```
1:6F80h: 40 4B E5 8C 13 B7 C3 BE DA B2 DB 13 72 AF C5 A3  @KåŒ.·Ã¾Ú²Û.r¯Å£
1:6F90h: 09 BA 81 34 09 12 CA 72 86 AC 5F 86 DB 8B 75 1E  .°.4..Êr†¬_†Û‹u.
1:6FA0h: 0D 00 01 04 70 6F 6F 6C 69 00 00 00 00 00 00 00  ....pooli.......
1:6FB0h: 0C 00 01 01 00 00 00 5F 7C 87 53 00 00 00 00 00  ......._|‡S.....
1:6FC0h: 2A 00 01 07 6B 65 79 6D 65 74 61 21 02 E3 45 56  *...keymeta!.ãEV
1:6FD0h: 40 4B E5 8C 13 B7 C3 BE DA B2 DB 13 72 AF C5 A3  @KåŒ.·Ã¾Ú²Û.r¯Å£
1:6FE0h: 09 BA 81 34 09 12 CA 72 86 AC 5F 86 DB 00 00 00  .°.4..Êr†¬_†Û...
1:6FF0h: 08 00 01 07 72 65 63 65 69 76 65 00 2B 00 01 07  ....receive.+...
1:7000h: 70 75 72 70 6F 73 65 22 31 45 75 6E 68 68 56 79  purpose"1EunhhVy
1:7010h: 43 65 57 48 51 71 62 61 4C 43 67 38 73 76 61 48  CeWHQqbaLCg8svaH
1:7020h: 65 70 76 67 41 42 5A 4D 34 46 FF FF 2E 00 01 F4  epvgABZM4Fÿÿ...ô
1:7030h: 5F 01 00 5A 7C 87 53 00 00 00 00 21 03 05 D2 F4  _..Z|‡S....!..Òô
1:7040h: 20 76 65 99 3E 10 C7 E6 0D EA BD 49 DA 2A EC 5D   ve™>.Çæ.ê½IÚ*ì]
1:7050h: 6E E2 14 A5 BE 8D EF 6A 9D 8A C6 55 C4 00 00 00  nâ.¥¾.ïj.ŠÆUÄ...
1:7060h: 0D 00 01 04 70 6F 6F 6C 68 00 00 00 00 00 00 00  ....poolh.......
1:7070h: 0C 00 01 01 00 00 00 5A 7C 87 53 00 00 00 00 00  .......Z|‡S.....
1:7080h: 2A 00 01 07 6B 65 79 6D 65 74 61 21 03 05 D2 F4  *...keymeta!..Òô
1:7090h: 20 76 65 99 3E 10 C7 E6 0D EA BD 49 DA 2A EC 5D   ve™>.Çæ.ê½IÚ*ì]
1:70A0h: 6E E2 14 A5 BE 8D EF 6A 9D 8A C6 55 C4 FF FF FF  nâ.¥¾.ïj.ŠÆUÄÿÿÿ
1:70B0h: 08 00 01 07 72 65 63 65 69 76 65 00 2B 00 01 07  ....receive.+...
1:70C0h: 70 75 72 70 6F 73 65 22 31 39 4C 47 72 50 43 79  purpose"19LGrPCy
1:70D0h: 37 57 51 62 53 41 67 6B 67 31 58 46 78 4E 4D 31  7WQbSAgkg1XFxNM1
1:70E0h: 7A 63 42 69 73 53 46 67 78 72 FF FF 08 00 01 04  zcBisSFgxrÿÿ....
```

EVIDENCE

- Addresses
- Transaction details
- Wallet and backup files

NETWORK TRAFFIC



IP DISCLOSURE

```
5-16 11:04:26 GetMyExternalIP() received [74.12.189.38] 74.12.189.38:0
5-16 11:04:26 GetMyExternalIP() returned 74.12.189.38
5-16 11:04:26 AddLocal(74.12.189.38:8333,4)
5-16 11:04:26 ext-ip thread exit
5-16 11:04:27 receive version message: /Satoshi:0.9.1/: version 70002, blocks=301021, us=74.12.189.38:59804, them=96.127.190.250:8333, peer=96.127.190.250
5-16 11:04:27 Added time data, samples 2, offset +8 (+0 minutes)
5-16 11:04:28 receive version message: /Satoshi:0.9.99/: version 70002, blocks=301021, us=74.12.189.38:63437, them=192.241.188.47:8333, peer=192.241.188.4
5-16 11:04:28 Added time data, samples 3, offset +1 (+0 minutes)
```

Transactions Relayed By 70.69.238.84

Transactions that were relayed first by the ip 70.69.238.84

9c3278928cf4a2defdbd4b5b512a875519d590d8a597ccda7877435b0991b0a7 — 2014-05-29 20:57:56

1B3BfWXz1naSg8UBgbeBVGBkYLDqqnhaAm 128cRgDc66uR8qMJobHvVxgdCJXdiSUW1j 1PX1dyhHGvoJa1s1DtEGyvBxpFKFHzZbt2 14chTgYyv2VRxkdVG9e5HSFncBw2gtV2pV	→	1Lq9E8JsfyrjAyNPFvnm6MJugdVib44tvB — 0.01000357 BTC 1JTHw7QnwM5mFNaYrtv7j7yZvVXknDsoZP — 0.00502 BTC

0.01502357 BTC

Total Connected: 436

IP	Port	Client Version	Sub Version
195.154.169.155	8333	70002	/Satoshi:0.9.1/
70.69.238.84	8333	70001	/Satoshi:0.8.6/

EVIDENCE

- IP addresses
- Transaction details

BLOCK CHAIN

eight	303251
lock time	2014-05-30 04:25:18
rades sum	9,884.98637622 BTC
b txs	979
ifficulty	10,455,720,138.485
ee	0.16870347 BTC
ash	00000000000000018ebe728e653d0ced8704b1ec88f8a93978d733ae6ada310
ersion	2
onfirmations	1
erkle root	3480fd6a10b97d94194a1a6047c245ae9612dc5f97b80aac6975700f4856875f
rev block hash	00000000000000003d064dce6041a89b9b333d9300a633b42f85027aa7892727
ize	592.96 kB
oin days destroyed	61,133.1

Block height	Block created	Transactions	Block fee	Size (kb)	Days destroy
303251	7 minutes ago	979	0.16870347	592.96 kB	61,133
303250	37 minutes ago	341	0.03630870	203.17 kB	468
303249	41 minutes ago	175	0.02801914	140.17 kB	2,359
303248	45 minutes ago	625	0.10788094	367.28 kB	2,994
303247	1 hour 4 minutes ago	514	0.08476355	340.59 kB	1,434

PUBLIC TRANSACTIONS

46f9b3f469812745c00a3b525d13125a6af85769efbd21729e7205f4e36733a4

13Svmzu71NKzddyEA5gk1KeGwwc5zEn9nQ (0.01048322 BTC - Output)
1LzvdM9JCLXZhXCeydMeAeH6JurJPhKhfo (3.12922644 BTC - Output)
1Lx7ByezM7XgEytTKNG6oPNvg1z4mSXS7e (0.0324733 BTC - Output)
1HZzZGzG2qyCHyNxMyBPVUbVB2hKv24zUC (0.01039426 BTC - Output)

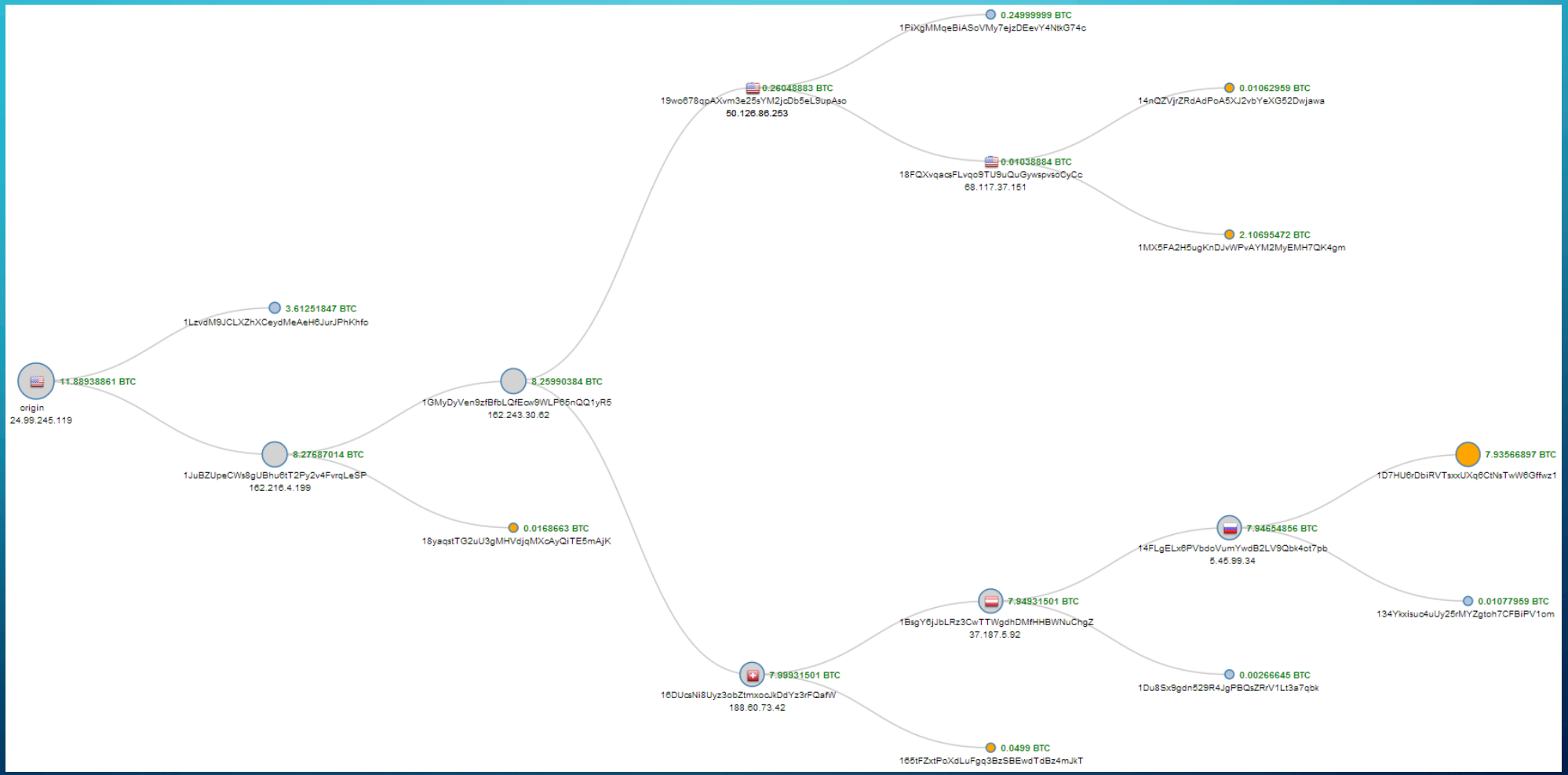
1KZLvzS9153EAH5kFLbtDRd1XvtqmS2ZMM - (Spent) 3.17234218 BTC
1FFLfPhyuTiDW9NhQkjgsK9jJU5U8voSED - (Spent) 0.01013504 BTC

12 Confirmations | 3.18247722 BTC

Summary	
Size	669 (bytes)
Received Time	2014-05-30 05:18:46
Included In Blocks	303278 (2014-05-30 05:29:24 +11 minutes)
Confirmations	12 Confirmations
Relayed by IP	149.210.133.244 (whois)

Inputs and Outputs	
Total Input	3.18257722 BTC
Total Output	3.18247722 BTC
Fees	0.0001 BTC
Estimated BTC Transacted	3.17234218 BTC
Scripts	Hide scripts & coinbase

MONEY FLOW


0.24999999 BTC
1PiXgMMqeBiASoVMy7ejzDEevY4NtkG74c
0.26048883 BTC
19wo678qpAXvm3e25sYM2jcDb5eL9upAso
50.126.86.253
0.01062959 BTC
14nQZVjrZRdAdPoA5XJ2vbYeXG52Dwjawa
0.01038884 BTC
18FQXvqacsFLvqo9TU9uQuGywspvsoCyCc
68.117.37.151
2.10695472 BTC
1MX5FA2H5ugKnDJvWPvAYM2MyEMH7QK4gm
3.61251847 BTC
1LzvdM9JCLXZhXCeydMeAeH6JurJPhKhfo
11.88938861 BTC
origin
24.99.245.119
8.25990384 BTC
1GMyDyVen9zfBfbLQfEcw9WLP65nQQ1yR5
162.243.30.62
8.27587014 BTC
1JuBZUpeCWs8gUBhu6tT2Py2v4FvrqLeSP
162.216.4.199
0.0168663 BTC
18yaqstTG2uU3gMHVdjqMXcAyQiTE5mAjK
7.93566897 BTC
1D7HU6rDbiRVTsxxUXq6CtNsTwW6Gffwz1
7.94654856 BTC
14FLgELx6PVbdoVumYwdB2LV9Qbk4ot7pb
5.45.99.34
0.01077959 BTC
134Yixxisuc4uUy25rMYZgtoh7CFBiPV1om
7.94931501 BTC
1BsgY6JbLRz3CwTTWgdhDMfHHBWNuChgZ
37.187.5.92
7.99931501 BTC
16DUcsNi8Uyz3obZtmxocJkDdYz3rFQafW
188.60.73.42
0.00266645 BTC
1Du8Sx9gdn529R4JgPBQsZRrV1Lt3a7qbk
0.0499 BTC
165tFZxtPoXdLuFgq3BzSBEwdTdBz4mJkT

COMMON PATTERNS

17gH1u6VJwhVD9cWR59jfeinLMzag2GZ43		1MK3Qmu8rfUwd4xszXfsGEmdCDKrkvJecM 1PVd9iQJrw8thpWzVBw8QfuU786hr72uwG	0.59697034 BTC 13.28292966 BTC

1KqcQhxxhYMScd9fzdnjgzwFzMWJoPAoZ6 18fpZf2TBMjMGjsxTSQ4qT61oNmWoNbFwp 1LxSfELv97wDFQ9NTqte7b3RxzU3iJTV4q 18D9AsahQzZM86Bc4T55TkASfKnY22x2tT 16oHajrphZJKRAo2FvzYNSD95pzoqpmcLF 1DSKSWGWUHbVuCGJZiDRraAjx9DkN9Ckby 1ApUjaQL69wV4xexpzonb8818fcraqYZhQ 1y8KNwoCK6QeKcPKwBgF3uPsq7aEpVTpD 1P2u9NVo3prLa5jJhHpyrCV3Ej9No8mnoo 1PeAj9jCA8Di2rBWLiVi9fpAxfgYhcgJeQ		17gH1u6VJwhVD9cWR59jfeinLMzag2GZ43	13.88 BTC

EVIDENCE

- Money flow
- Transaction details
- Advanced correlations

WEB WALLETS

- IP address
- HTTP headers
- Geolocation
- …

EXCHANGERS

- IP address
- HTTP headers
- Geolocation
- …
- Identification
- Payment details

INTERNET SHOPS

- IP address
- HTTP headers
- Geolocation
- …
- Identification
- Shipping address

PROFILING

13hVkumuq942sAN9rnoZxkch59pL99KHUS

18LDvu2nqr8a5AK9AHkkqDK6Z65dzbTgtn	0.001 BTC
1AkZUyVHtVsU6Z... (The Liberty Radio Network)	0.001 BTC
1DVipMAKrZgtmV... (Free Talk Live)	0.001 BTC
1DXqjYYcjgeTrtDSG9EH1Kc8UKwiJgMCXy	0.001 BTC
1Fd8RuZqJNG4v56... (FreeDomainRadio.com)	0.001 BTC
1BTCorgHwCg6u2... (Bitcoin Foundation)	0.0005 BTC
1HB5XMLmzFVj8A... (WikiLeaks)	0.001 BTC
1Hy8xL2ey3GwFLTEd3NTS76A3bWMnQ2dRP	0.001 BTC
1JZuqEaKQCUqUKZULu3dFiaBhi9Xkn8ZXL	0.001 BTC
1M87hiTAa49enJK... (Antiwar.com)	0.001 BTC
1N1pF6fLKAGg4nH7XuqYQbKYXNxCnHBWLB	0.0005 BTC
1PtnAAWq6J9CdcahRtdwJtrdVu4V8ovKSS	0.001 BTC
1snowqQP5VmZg... (Official Snowden Defense Fund)	0.001 BTC
1UN8betDtQnp7gA6Bm1oiw1DZyNsjKjhW	0.0005 BTC
32wRDBezxnazSBxMrMqLWqD1ajwEqnDnMc	0.001 BTC
13hVkumuq942sAN9rnoZxkch59pL99KHUS	0.02778312 BTC

EVIDENCE

- Connection details
- Offline information

PREDICTIONS

- Decentralized vs Distributed
- Credit Cards vs Bitcoins
- Bitcoins vs Forks

twitter: @neyolov

email: yo@neyolov.com