
From: Vincenzo lozzo <[REDACTED]>
Sent: Saturday, August 23, 2014 11:25 AM
To: jeffrey E.
Cc: Joi Ito
Subject: Re: de-anonymize tor/bitcoin

actually scratch that, magstrips on cards have enough space to fit in =hatever token/identifier we want for the crypto currency. It's just a =atter of convincing the companies that deploy them to adapt to our =standards, but we still need to hand out debit cards to people

On 23/ago/2014, at 12:07, Vincenzo lozzo <[REDACTED]> wrote:

> hmm yeah, I like it - it's crazy :-) so, why not?
> The problem we have is that we need to create an actual physical =etwork where people on food stamps have some kind of 'debit card' and =erchants have a special POS to process those transactions (probably =omething like a Square reader will be sufficient). Not sure how big of = deal that is in terms of capital, but it's probably the only option =nless we want to assume people on food stamps have smartphones..
>
> But the good news is that if we do that and we succeed we obtain the =ollowing:
> 1) A good enough code base to then to the SWIFT thing + a lot more
> 2) A govt stamp of approval in crypto-currency stuff
> 3) Once merchants have our POS we can extend the currency to literally
> =everyone*
>
> Jeffrey, does the govt on our side comes with money attached?
>
> Joi, what do you think?
>
> On 23/ago/2014, at 11:34, jeffrey E. <jeevacation@gmail.com> wrote:
>
>> =tpp://www.foxnews.com/politics/2014/08/22/food-stamp-fraud-rampant-gao-re=ort/ make food stamps a test bed for transparent cyrpto? govt on =ur side
>>
>>
>> On Sat, Aug 23, 2014 at 5:54 AM, Vincenzo lozzo <[REDACTED]> =rote:
>> Jeffrey,
>>
>> this stuff is a bit heavy but if you care for it here are a couple of =inks:
>>
>> 1) One obvious technique to de-anonymize tor is to control the 'exit =odes', meaning the nodes that connect Tor to the Internet. If you =ontrol enough of them you can de-anonymize a lot of it.
>>
>> 2) A friend of mine (among other people), found ways to de-anonymize
>> = lot of the 'hidden services' (roughly the 'secret' websites inside
>> =or) much more efficiently. I believe Tor fixed those flaws by now,
>> but =t's a pretty ingenious attack:
>> =tpp://www.ieee-security.org/TC/SP2013/papers/4977a080.pdf The bottom
>> =ine there is that with roughly \$11k you can realistically

>> de-anonymize =ny hidden service on tor. You do that by 'pretending'
>> to be one of the =ervers handing out the addresses of the hidden
>> services
>>
>> 3) The third option is to just attack the machine(s) of the 'bad
>> =uys', this is for instance what the FBI did a while ago against a
>> =etwork oh pedophiles:
>> =tpp://www.reddit.com/r/onions/comments/1jmrta/founder_of_the_freedom
>> _host=ng_arrested_held/ This option is targeted but it always works.
>> The trick there was to =ttack the computer and then have the computer
>> connect to a non-tor =ebsite, by doing that they could get the IP
>> address and de-anonymize =he user. Of course once you have control
>> over the machine you can do =uch more that that, but they sticked to
>> that
>>
>> As for bitcoin itself, I believe I sent you the Bitlodine paper.
>> =nother very good one is this:
>> =tpp://cseweb.ucsd.edu/~smeiklejohn/files/imc13.pdf
>>
>> Now some of these approaches are probabilistic, (3) is not. But I
>> =uess my point is: if you *really* want to figure out what somebody
>> is =oing on tor/bitcoin you can do it given enough resources. Not
>> that it =atters too much, but well
>>
>>
>>
>>
>> --
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>

<?xml version=.0" encoding=TF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version=.0">
<dict>
 <key>conversation-id</key>
 <integer>299373</integer>
 <key>date-last-viewed</key>
 <integer>0</integer>
 <key>date-received</key>
 <integer>1408793092</integer>
 <key>flags</key>
 <integer>8590195713</integer>
 <key>gmail-label-ids</key>

```
<array>
    <integer>6</integer>
    <integer>2</integer>
</array>
<key>remote-id</key>
<string>433851</string>
</dict>
</plist>
```