

From: "jeffrey E." <jeevacation@gmail.com>
To: Vincenzo Iozzo <[REDACTED]>
Subject: Re:
Date: Sun, 31 Jan 2016 09:49:01 +0000

it was helpful thanks

On Sun, Jan 31, 2016 at 4:40 AM, Vincenzo Iozzo <[REDACTED]> wrote:
Hmm I realized that yesterday I might have drown you in too much tech details, sorry.

I think the short answer is: aside from the mesh network (which is doubtful and a bit weak, mostly for lack of details) the rest mostly sounds good/feasible in theory. The practice might be, and almost always is, weaker.

The stuff I said yesterday are the things I would start going after first if I were tasked to attack it.

Sent from my Iphone

On Jan 30, 2016, at 13:27, Vincenzo Iozzo <[REDACTED]> wrote:

Btw (1) is a consequence of something Minsky says in the video. Which is that essentially for all practical intent and purposes it is impossible to verify that correctness of code.

Also if you have time, maybe it's worth for you to watch
this: <https://twitter.com/enigmaconf/status/692825085317500928>

Keep in mind that since they cannot burn sources and methods this is a bit of "there's no truth in Pravda and no news in Izvestia ", but it's a good intro to how attackers work

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On Jan 30, 2016, at 13:16, Vincenzo Iozzo <[REDACTED]> wrote:

It's hard to tell w/o proper code/documentation (couldn't find much online). In general the four things are:

- 1) the devil is in the details, meaning that even if in theory it's all solid the implementation might have bugs. There's no definitive technical solution for that though
- 2) anything that is "custom" (eg: they have a custom wifi protocol) is a red flag because it means that it hasn't been properly vetted and might be broken/buggy
- 3) there aren't enough details online to tell but it seems to me that to speed up the blockchain verification they partially centralize the network by using their own "supernodes" (essentially the wallets talk to the supernodes vs the actual blockchain). The security of those servers seems key to me and they gloss over it online
- 4) the mesh network implementation is completely up in the air (judging from what's public) and it could go horribly wrong. So that needs further verification

Also (5), in general the disadvantage of distributed /open things is that it is a lot easier to steal money vs a closed network (like swift).

Are you looking to invest into this thing? If so , I'd suggest a few things:

A) because problem (1) above is not completely solvable, they need to have a plan. Part of it is technical (do continuous code auditing, pentesting, on board proper crypto people, etc), the other part is legal/financial and pr. Specifically they should have some kind of insurance and they should have a pr disaster recovery plan. A big disadvantage of decentralized system is that you don't have anybody to trust and you don't have a closed network that can make stealing money hard, they need to address that

B) realistically nobody is going to attack them until they become significant enough from a financial standpoint. This gives them time to work on A. That said they should avoid making enemies (the "disgruntled" hacker type)

Hope this is useful, if you get more stuff from them I'm happy to look into it more. Also if you do invest I can help them with (A) if needed.

It's a very dumb platitude but "security is a process" is true.

Unrelated: checkout edge.org, I think you'll like it.
There's a short video with Minsky that is absolutely fantastic

Sent from my Iphone

On Jan 30, 2016, at 11:26, jeffrey E. <jeevacation@gmail.com> wrote:

(<https://mycelium.com/phone/index.html>). what are its weak points?

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