DIVA.EXCHANGE

Results of the Research: «Trying to De-Anonymize I2P Network Participants»

...and its Relation to Crypto Swaps involving XMR

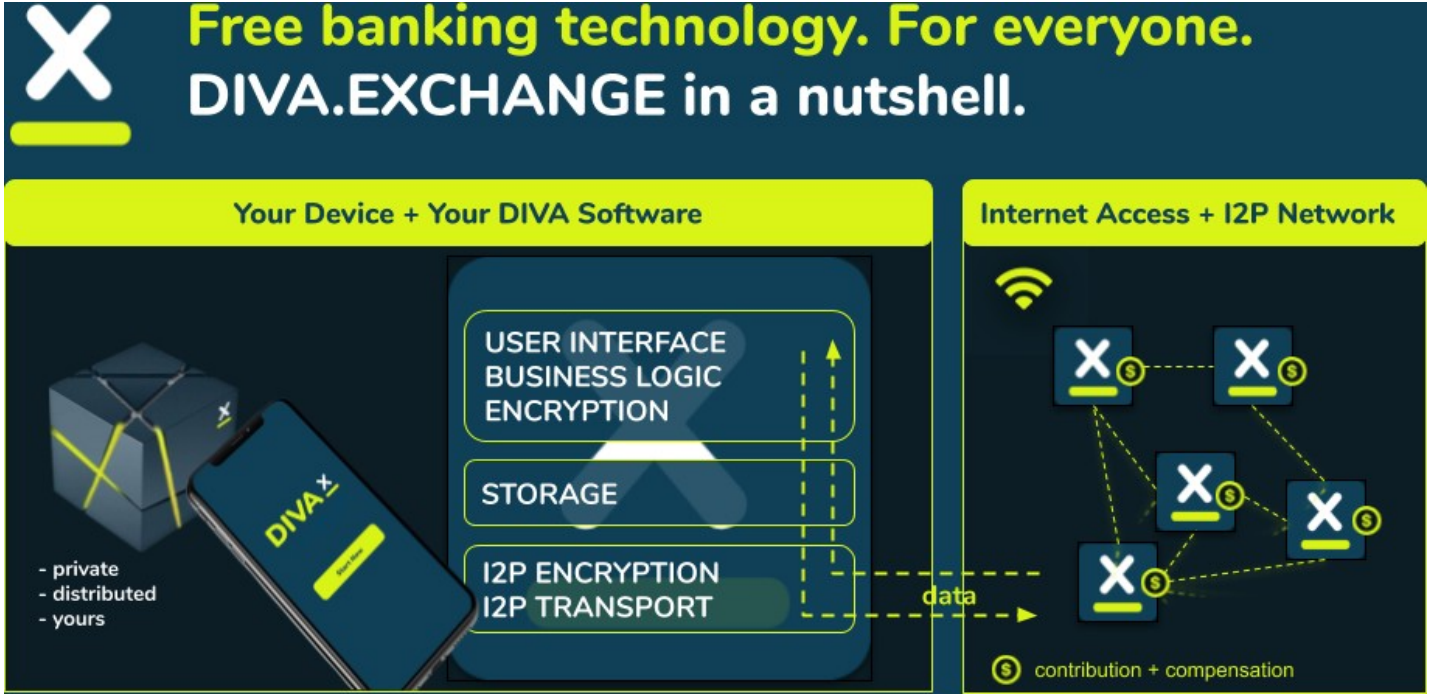
About diva.exchange

- Non profit association, open to everyone
- A loose bunch of Devs & Researchers
- What: create a fully private and truly distributed exchange for digital values – some call this «swaps»… we just want to make it useful for humans and bots
- No centralized business model (pointless)

Agenda

- Intro (you are here!)
- Project status: Exchange («swaps»)
- Marco Purtschert presenting I2P Research Results
- Outro & Q&A

Scope


Free banking technology. For everyone.
DIVA.EXCHANGE in a nutshell.
Your Device + Your DIVA Software
Internet Access + I2P Network
USER INTERFACE
BUSINESS LOGIC
ENCRYPTION
STORAGE
I2P ENCRYPTION
I2P TRANSPORT
data
- private
- distributed
- yours
contribution + compensation

What we did as Devs...

- Created an I2P SAM library as generic communication helper via I2P for any application: npm i @diva.exchange/i2p-sam
- From scratch: PBFT/PoS - weighted byzantine fault tolerance - based blockchain, divachain: npm i @diva.exchange/divachain
- The diva protocol prototype to handle the exchange functionality («swaps»… call it whatever you want, it is just the fully distributed «business logic»)
- An UI prototype («diva»)
- Dockerized environment for the full stack (I2P, divachain, protocol, UI)

Current State

- Divachain works great over I2P (UDP gossip)
- Examples: XMR, BTC and ETH are smooth experiences as a Dev (like: as asset backends over I2P with separated wallets)
- Research together with universities

Next Challenges

- Dev: First trades (aka «swaps») involving XMR, BTC, ETH and probably some others
- Research: Trying to de-anonymize «swaps», trying to break divachain, scalability of divachain

Focus on I2P

- Marco Purtschert and Brian Boss are the researchers at Lucerne University of Applied Sciences and Arts
- diva.exchange is the research partner (definition of scope and alike) – but
  not interfering (also not financially)
- Following Video is the teaser done
  by Marco & Brian

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Codebase (AGPLv3)

- **Git**: https://codeberg.org/diva.exchange
- Mirrored to **Github**: github.com/diva-exchange

Give Away: di`lemma

Q&A

Mastodon: @social@social.diva.exchange
Twitter: @DigitalValueX