Portal Network and libportal.net

Daniel Sobol

Who am I

ex fluffy
working on my own client
18+ years of messing around
Master's degree in EE

My own agenda for lightweight ethereum clients

What is Portal Network?

Bespoke P2P network

3 Networks actually (and growing)

Built on top of discv5

Regular nodes & bridge nodes

Why not just use BitTorrent?

We want our data to be verifiably anchored to the canonical data

There are some attacks we can mitigate using our own protocol - each network has specific ones

History Network

Chain history, headers & block bodies

Kinda production ready

Can be used for 44444

4444

We are ready and WAITING

Beacon Network

Allows to follow HEAD

Mostly complete

Expected to be ready in July/August

State Network

Full archive of account & contract data

Active development

Expected before DevCon 2024

Existing clients

trin - Rust ultralight - JS

fluffy - NIM shisui - GO

libportalnet - ZIG

Goals:

Minimal. BYO: storage, network & event loop

Lightweight. Target ESP32-S3

Embeddable.
Compiles to .so or .a

Phones, laptops and ... WiFi-enabled microcontrollers

802.11 b/g/n + BT5

2x240Mhz Xtensa cores

8Mb RAM + SD card for storage

+cryptographic coprocessor

Few words about eportald

R&D platform for libportalnet

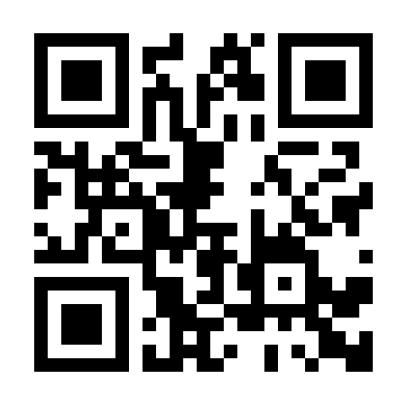
Written in Erlang/Elixir

Tick-tack model for features between eportald & libportalnet

ethportal.net

Discord:

tiny.cc/portalnet



libportal.net
eportald.org
mynameisdaniil.org