

# Portal Network and libportal.net

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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 4444

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](https://tiny.cc/portalnet)



libportal.net

eportald.org

[mynameisdaniil.org](https://mynameisdaniil.org)