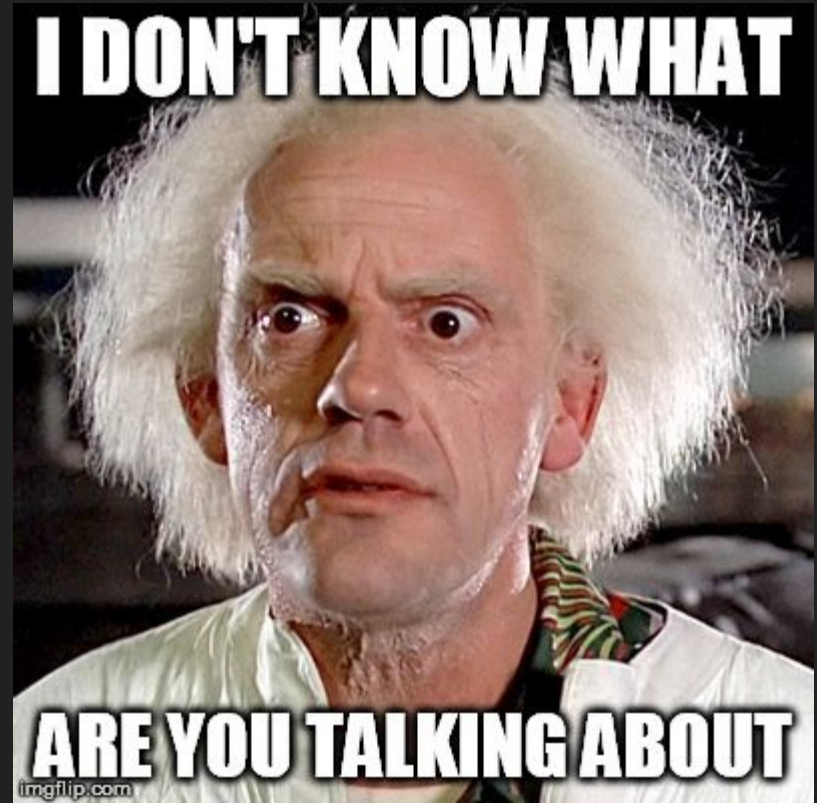# LSP ~~Stack~~ overview

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bolt.observer - 2023

LSP WTF?

- What
- Why
- Who
- How
- Seriously, why?

What is an LSP?

"They provide users with a stable connection to the Lightning network, simplified channel management, and liquidity." - Roy

"A Lightning Service Provider (LSP) deploys liquidity in the Lightning Network on behalf of others." - Lightning Labs

"A Lightning Service Provider (LSP) is a company or organization that offers services to users of the Lightning Network" - ChatGPT

Why (do you care)

Lightning is hard …. But it doesn't have to be.

Internet Service Provider:

- gives you connectivity
- connects you to the rest of the world
- is reliable (most of the time)

Lightning Service Provider:

- gives you inbound capacity
- connects you to the rest of the network
- is reliable (most of the time)

Who - LSPs in the wild

Breez
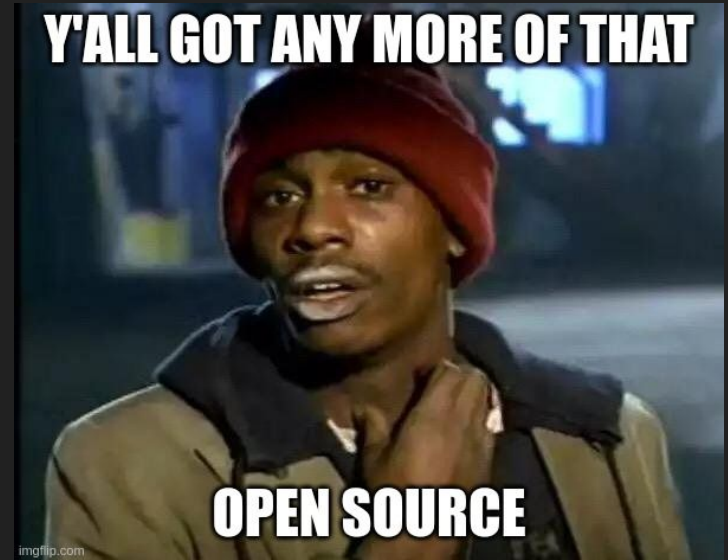Acinq
Blixt

Blocktank
C=
Deezy
Lqwd

LNBIG
Bitrefill
Boltz
Voltage

How

Solutions out there

- Blocktank
- dunder-lsp
- lspd

Creating your own? -> LSP spec

BALLS.DEV - LSP Spec

- LSPS0 Transport Layer
- LSPS1 Channel Request
- LSPS2 JIT Channels
- LSPS3 Promise To Unconditionally Fund 0-conf
- LSPS4 Continuous JIT Channels
- LSPS5 Webhook registration

Join and champion your idea!

Seriously, why

- Make lightning self custodial (for masses)
- Abstract away the complexity
- Improve capital efficiency
- Enable onboarding of users
- Make bitcoin a productive asset

Future

- Standardized API
    - LSP Spec adoption
- Price discovery for LN liquidity
    - Get liquidity out of walled gardens
- New building blocks for lightning

The end

- LSP spec group -> https://balls.dev
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- https://bolt.observer