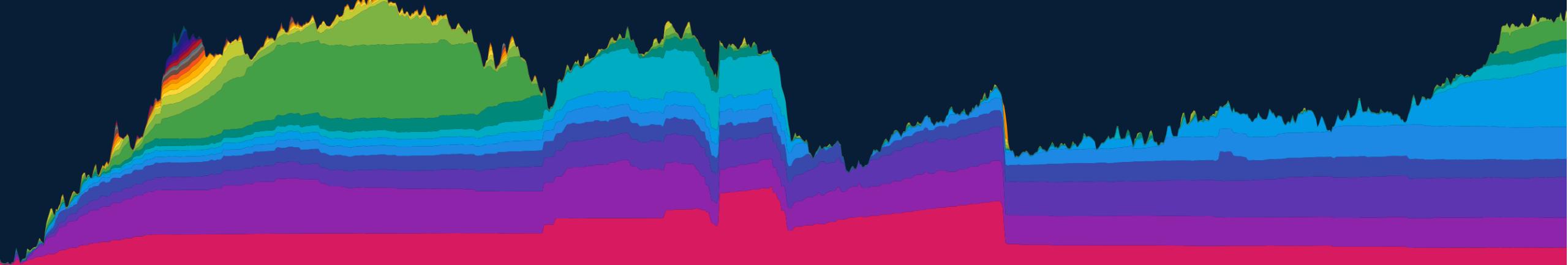




The Rise Of Bitcoin Layers

Warum Bitcoin Layers?

Mainchain
reicht nicht



Mainchain reicht nicht

BIP: 119
Layer: Consensus (soft fork)
Title: CHECKTEMPLATEVERIFY
Author: Jeremy Rubin <j@rubin.io>
James O'Beirne <vaults@au92.org>
Comments-URI: <https://github.com/bitcoin/bips/wiki/Comments:BIP-0119>
Status: Draft
Type: Standards Track
Created: 2020-01-06
License: BSD-3-Clause

BIP: 300
Layer: Consensus (soft fork)
Title: Hashrate Escrows (Consensus layer)
Author: Paul Sztorc <truthcoin@gmail.com>
CryptAxe <cryptaxe@gmail.com>
Comments-Summary: No comments yet.
Comments-URI: <https://github.com/bitcoin/bips/wiki/Comments:BIP-0300>
Status: Draft
Type: Standards Track

BIP: 345
Layer: Consensus (soft fork)
Title: OP_VAULT
Author: James O'Beirne <vaults@au92.org>
Greg Sanders <gsanders87@gmail.com>
Anthony Towns <aj@erisian.com.au>
Comments-URI: <https://github.com/bitcoin/bips/wiki/Comments:BIP-0345>
Status: Draft
Type: Standards Track
Created: 2023-02-03
License: BSD-3-Clause

Layer 2s von heute



Layer 2s von heute - Lightning

- + Schnell
- + Privat
- + Günstig



Layer 2s von heute - Lightning

- + Schnell
- + Privat
- + Günstig
- Liquidität
- Online



Layer 2s von heute - Liquid

- + Bitcoin mit Extras
- + Schnell(er)
- + Privat(er)
- + Günstig



Layer 2s von heute - Liquid

- + Bitcoin mit Extras
- + Schnell(er)
- + Privat(er)
- + Günstig

- Federation
- Pegout



Layer 2s von heute - Rootstock

- + Wie Ethereum
- + Schnell(er)
- + Günstig



Layer 2s von heute - Rootstock

- + Wie Ethereum
- + Schnell(er)
- + Günstig

- Wie Ethereum
- Federation



Layer 2s (?) von heute

fedi



Layer 2s (?) von heute - Ecash

- + Sofort
- + 0 Gebühren
- + Privat

Fedi



Layer 2s (?) von heute - Ecash

- + Sofort
- + 0 Gebühren
- + Privat
- Custodial
- Liquidität

Fedi



Layer 2s (?) von heute - WBTC

+ Defi



Layer 2s (?) von heute - WBTC

+ Defi

- Custodial
- Teuer
- Ethereum



Layer 2s von morgen?

Drivechains?



ArgC?

Bitcoin zwischen Layers bewegen

– Fragmentiert

The terminal window shows two commands:

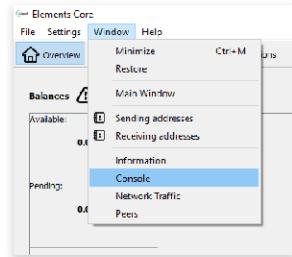
```
bitcoin@nuc:~$ lightning-cli connect 02d96eadea3d780104449aca5c93461ce67c1564e2e1d73225fa67dd3b997a6018@45.86.229.190:9736
{
  "id": "02d96eadea3d780104449aca5c93461ce67c1564e2e1d73225fa67dd3b997a6018",
  "features": "08a0000a8a69a2",
  "direction": "out",
  "address": {
    "type": "ipv4",
    "address": "45.86.229.190",
    "port": 9736
  }
}
bitcoin@nuc:~$ lightning-cli fundchannel 03037dc08e9ac63b82581f79b662a4d0ceca8a8ca162b1af3551595b8f2d97b70a 0.05btc 17000perkb
```

The web-based 2-Way Peg App interface has the following components:

- Rootstock** logo at the top left.
- 2-Way Peg App** title.
- Bridging BTC and RBTC** subtitle.
- Select your token conversion** section with two options:
 - BTC to RBTC**
 - RBTC to BTC**
- Or check the status of your transaction** section with a button labeled **Transaction status**.

Step-by-Step Guide

- Run Elements Core, and open the console window: **Window > Console**.



- Get a peg-in address by using the following command in the terminal.

```
getpeginaddress
```

Warning: The duration between generating a peg-in address with '`getpeginaddress`' and claiming it with '`claimpegin`' should be kept as small as possible. **Peg-in addresses are not long-term durable and should not be reused.**

- Record the `mainchain_address` and `claim_script` values.
- Send the bitcoin to be converted to the `mainchain_address` and record the transaction ID provided by your wallet.
- Wait for 102 confirmations on the Bitcoin blockchain. You can track the transaction on [Blockchain Explorer](#).
- After the transaction has received 102 confirmations, run Bitcoin Core and open the console: **Window > Console**.
- Enter the following two commands in the console using the transaction ID recorded in Step 4. Record each result—you'll need these to claim the peg-in on Liquid.

```
getrawtransaction <yourTXID>
gettxoutproof ['<yourTXID*>']
```

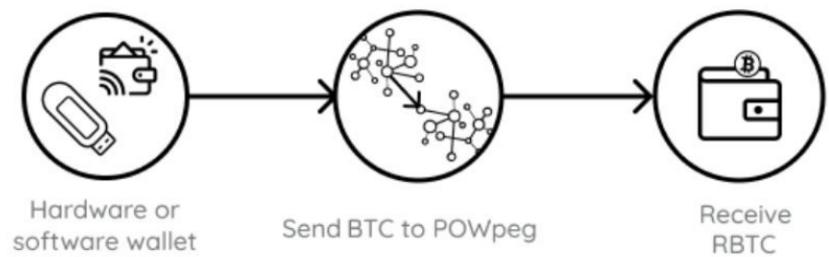
Enter the following command in the Elements Core console to initiate a **claimscript** on Liquid, from `getrawtransaction`, it from `gettxoutproof` [`<claim_script>` value], sidechain (around two Core should be updated, converted your BTC to L-BTC using a peg-in).

Bitcoin zwischen Layers bewegen

- Fragmentiert
- Aufwending mit Wartezeiten

BTC TO RBTC CONVERSION REQUIRES THESE STEPS

Please take into consideration that the BTC to RBTC conversion process requires 100 Bitcoin block confirmations. It is estimated to take around 17 hours (can vary depending on conditions of the Bitcoin network).



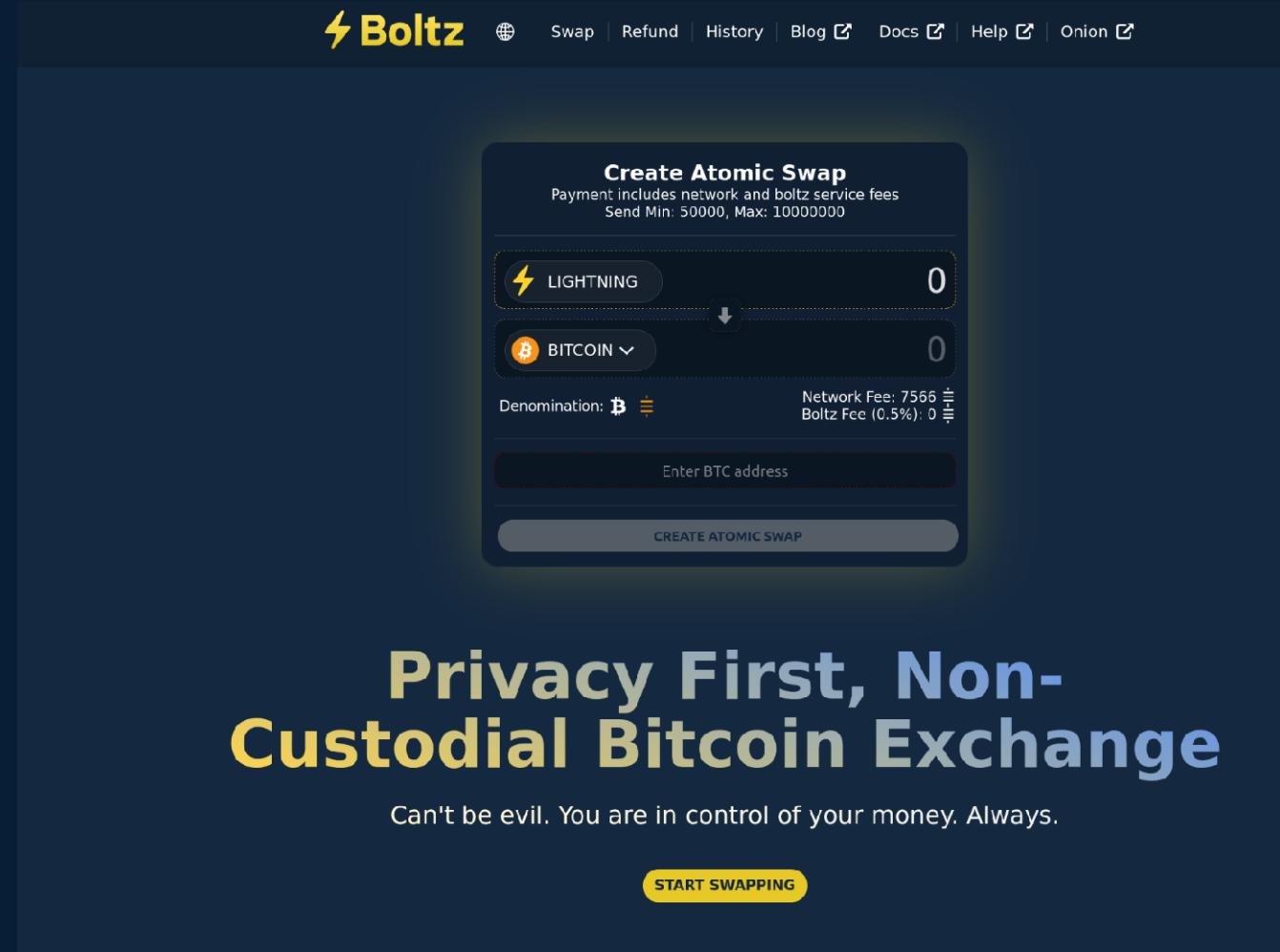
5. Wait for 102 confirmations on the Bitcoin blockchain. You can track the transaction on [Blockstream Explorer](#).

Bitcoin zwischen Layers bewegen

- Fragmentiert
 - Aufwending mit Wartezeiten
- > Custodial “Swap” Platformen

Boltz fixes this

– Einfache Oberfläche



The image shows the Boltz website's user interface for creating an atomic swap. At the top, there is a navigation bar with links for Swap, Refund, History, Blog, Docs, Help, and Onion. The main feature is a large, rounded rectangular button labeled "Create Atomic Swap". Inside this button, there are two input fields: one for "LIGHTNING" with a value of 0 and another for "BITCOIN" with a value of 0. Below these fields are dropdown menus for "Denomination" (set to BTC) and "Network Fee" (set to 7556). A note indicates "Boltz Fee (0.5%): 0". There is also a field to "Enter BTC address" and a large "CREATE ATOMIC SWAP" button at the bottom.

Privacy First, Non-Custodial Bitcoin Exchange

Can't be evil. You are in control of your money. Always.

[START SWAPPING](#)

Boltz fixes this

- Einfache Oberfläche
- Keine Custody

The screenshot shows the Boltz website's "Create Atomic Swap" interface. At the top, the Boltz logo is displayed next to a globe icon and navigation links: Swap, Refund, History, Blog, Docs, Help, and Onion. Below the header, a large button labeled "Create Atomic Swap" is visible, with subtext: "Payment includes network and boltz service fees" and "Send Min: 50000, Max: 10000000". The main form area contains two input fields: one for "LIGHTNING" with a value of 0 and another for "BITCOIN" with a value of 0. Below these fields are dropdown menus for "Denomination" (set to BTC) and "Network Fee" (set to 7556). A note indicates "Boltz Fee (0.5%): 0". There is also a field to "Enter BTC address" and a large "CREATE ATOMIC SWAP" button at the bottom.

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START SWAPPING

Boltz fixes this

- Einfache Oberfläche
- Keine Custody
- Schnell

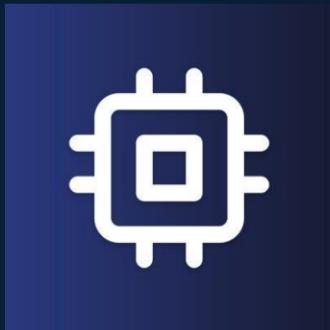
The image shows the Boltz website's user interface. At the top, there is a navigation bar with links for Swap, Refund, History, Blog, Docs, Help, and Onion. Below the navigation is a dark-themed form titled "Create Atomic Swap". The form is for "Payment includes network and boltz service fees" with a "Send Min: 50000, Max: 10000000" limit. It features two input fields: one for "LIGHTNING" with a value of 0 and another for "BITCOIN" with a value of 0. Below these fields are dropdown menus for "Denomination" (set to BTC) and "Network Fee" (set to 7556). A note indicates "Boltz Fee (0.5%): 0". There is a red placeholder text "Enter BTC address" in a field and a large blue "CREATE ATOMIC SWAP" button at the bottom.

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START SWAPPING

API Integrationen

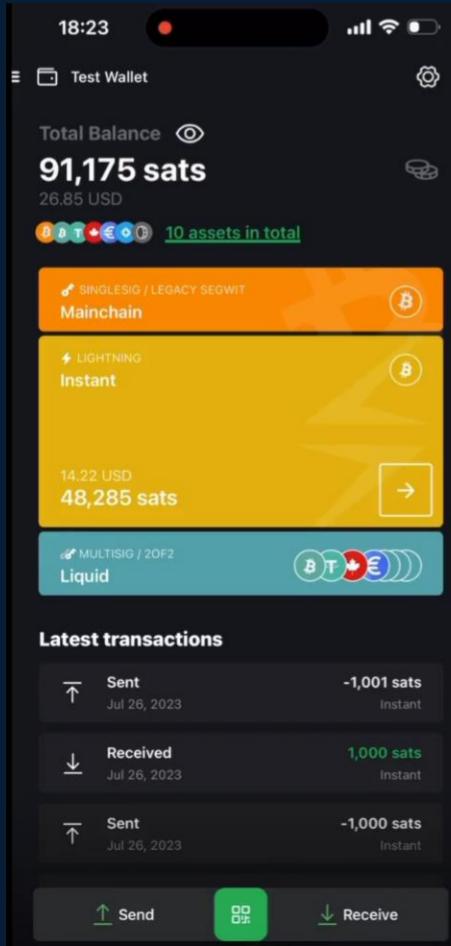


FUJI

breez

CORE
LIGHTNING

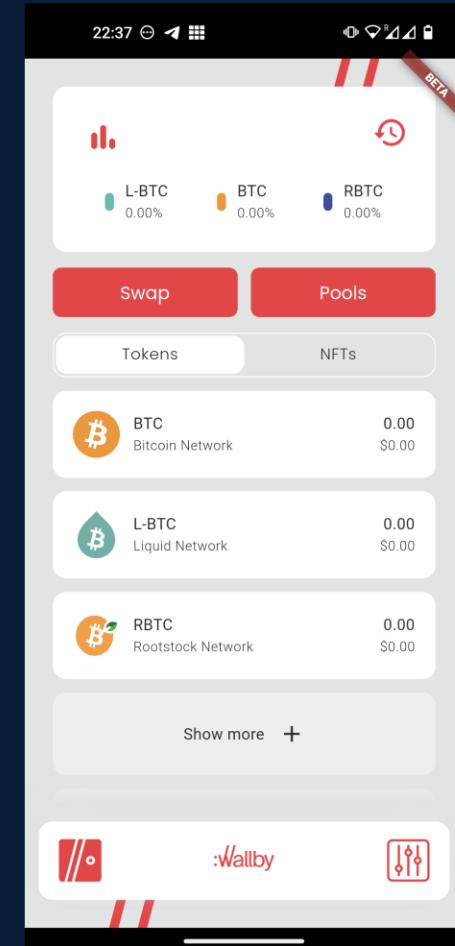
Bitcoin “Superapps”



Green



Aqua



Wallby

