RSK

W. L. Laubenheimer, blockchain@laubenheimer.eu

## **Table of Contents**

necessary environment	. 2
BTC <→ R-BTC "conversion"	. 3
tR-BTC to BTC	. 4

Currently (30.04.2020) there are less than 173 BTC (more than 1.5 Million USD) converted to R-BTC.

Checkout the holding of the bridge-contract and substract it from 21 Million:

## necessary environment

First of all you need to install electrum as described here https://developers.rsk.co/rsk/rbtc/conversion/

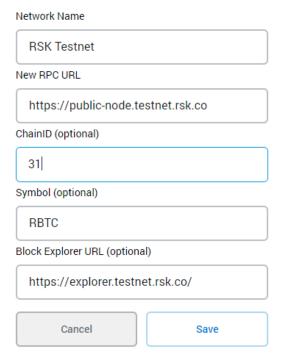
These are the faucets we will use:

- Bitcoin Testnet Faucet: https://testnet-faucet.mempool.co/
- RSK Testnet Faucet: https://faucet.rsk.co/
- RIF Testnet Faucet: https://faucet.rifos.org/

Now you need to setup metamask with tRSK-configuration as described here:

• https://developers.rsk.co/tutorials/ethereum-devs/remix-and-metamask-with-rsk-testnet/

or go with your account to switch networks and click on bottom add with following input:



## BTC < → R-BTC "conversion"

We use here the Testnetwork of both systems following this guide:

https://developers.rsk.co/rsk/rbtc/conversion/

To get the corresponding tR-BTC address from your tBTC address you need to use the following tool:

• https://github.com/rsksmart/utils



The repo threw a lot of errors caused by webpack. If you get errors too, try the following instead:

• https://github.com/iemwill/utils

And then you need to get in contact with the Team via your preferred channel and ask for a whitelisting on the bridge-contract.



Deliver the tBTC address you want to use from the electrum wallet.

Next step is calling the bridge with getFederationAddress() to get the BTC address you need to send your BTC.

First i tried the following contract:

but since i got deploying problems with remix this time, i used <a href="https://www.myetherwallet.com/">https://www.myetherwallet.com/</a> connected via metamask and choosed the contract section to insert:

- ABI/JSON-Interface: [{"name":"getFederationAddress","type":"function","constant":true,"inputs":[],"outputs":[{" name":"","type":"string"}]}] -





Transfer now 0.01 tBTC from the whitelisted tBTC address to the returned address. (as here TxID: 918fd47aac4ccdcccaf601bd9457487e2dc2781a1a6c7ce194d9703c993999c3).

After around 15 confirmations you see the transferred tRBTC to the corresponding address (derived via @rsksmart/utils from the BTC private key. (In my case from https://explorer.testnet.rsk.co/address/

0x9dcea53b9efc7b451996f510adb9e8f54eb4243a)



Until 29th of April 2020 the explorer doesn't show internal transactions like etherscan.io we just see the balance is there and no incoming transaction.

## tR-BTC to BTC

This was mine 0xbd57921340808a94ba336a0b9cdd307e9aa8750fba48a70630a45dd570212b0f and after 200 Blocks there was no tBTC at mra2W7HABdV3qxy5i3znrYiJrfm5tH2yUT.