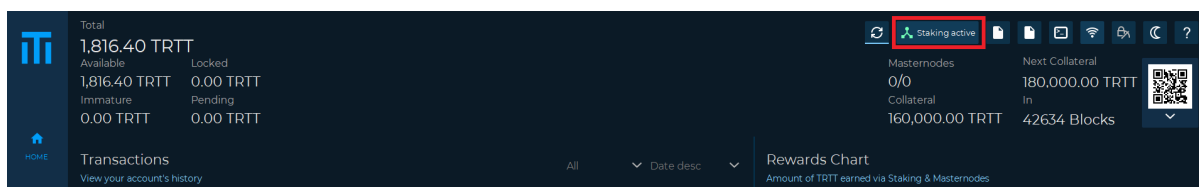


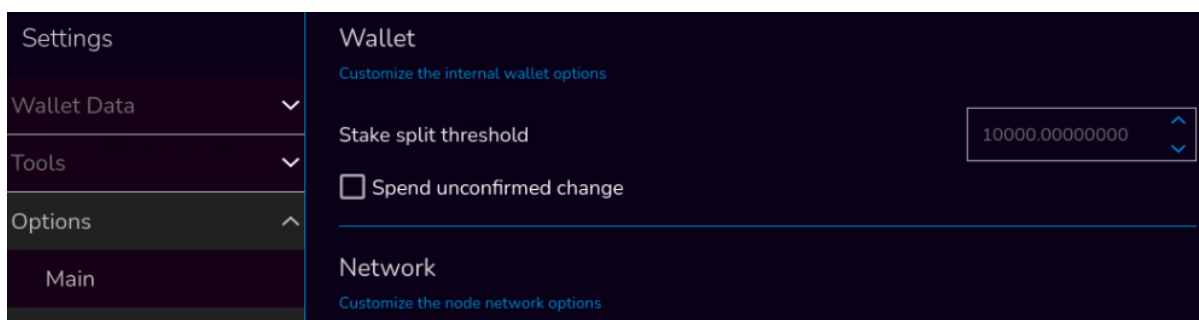
Staking optimization and common problems

This guide explains how to optimize staking and solve the most common problems. We open our wallet (in our case TRTT), and let's make sure staking is active.



Staking optimization

When staking, the larger the address balance the more will be earned. However, when we receive a reward, the coins are spent and it is necessary to wait for 600 confirmations to be available again for staking (mature) it is therefore useful to divide the coins into different inputs through the **setstakesplitthreshold** command. Whenever a successful stake is found, the stake amount is split across as many outputs (each with a value higher than the threshold) as possible. E.g. If the coin stake input + the block stake reward is 2000, and the split threshold is 499, the corresponding coin stake transaction will have 4 outputs (of 500 TRTT each). It is also possible to set the split value from the UI, Settings→Options→Wallet



Example

setstakesplitthreshold value

Where *value* is the number of TRTT we want the inputs to split into.

Let's open the debug console and let's try to set the value to 500 TRTT coin the following command.

setstakesplitthreshold 500

The screenshot shows a dark-themed application window titled 'Console'. At the top right, there is a row of icons: a refresh button, a share icon, a file icon, a folder icon, a mail icon, a Wi-Fi icon, a lock icon, a moon icon, and a question mark icon. Below these icons are two buttons: 'Open Debug File' and 'Command Line Options'. The main area of the window is a text-based console. It shows a timestamp '14:39:47' followed by a welcome message: 'Welcome to the TRTT RPC console. Use up and down arrows to navigate history, and Ctrl-L to clear screen. Type help for an overview of available commands.' Below this is a red warning message: 'WARNING: Scammers have been active, telling users to type commands here, stealing their wallet contents. Do not use this console without fully understanding the ramifications of a command.' Then, at '14:40:24', the command 'setstakesplitthreshold 500' is entered. The response is a JSON object: '{ "threshold": 500.00000000, "saved": "true" }'. At the bottom, there is a text input field labeled 'Console input' with a right-pointing arrow icon to its left and a minus sign icon to its right.

```

14:39:47 Welcome to the TRTT RPC console.
Use up and down arrows to navigate history, and Ctrl-L to clear screen.
Type help for an overview of available commands.

WARNING: Scammers have been active, telling users to type commands here, stealing their wallet contents. Do not use this
console without fully understanding the ramifications of a command.

14:40:24 setstakesplitthreshold 500
14:40:24 {
  "threshold": 500.00000000,
  "saved": "true"
}

```

> Console input -

Another useful command to know is **autocombinerewards**

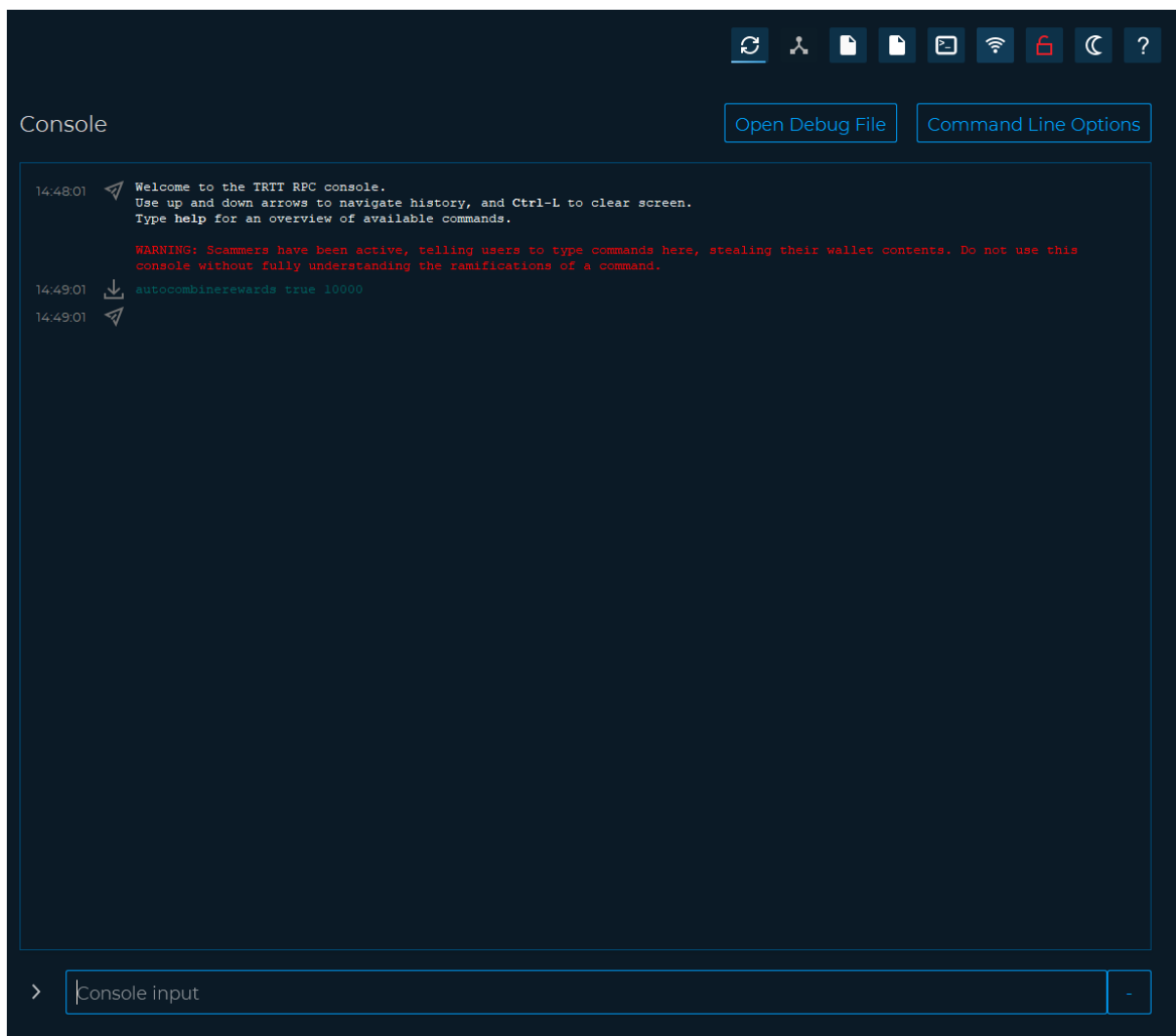
Periodically the wallet will look for 'dust' in your addresses, and combine them up to the number of coins set in the configuration setting. *autocombinerewards true value* will enable a feature that will automatically combine all staking / masternode rewards you receive in to one input, up to the amount that you specify with value.

So, if you want your minimum input size to be 10000 TRTT, then you would want to run the command in your debug console as follows: *autocombinerewards true 10000*.

Then any inputs less than 10000 will be swept into a new input, repetitively until the combine threshold is exceeded.

Once that threshold is exceeded, the grouping begins with another input. Your wallet **MUST** be unlocked when a reward is received for this to take effect.

Let's open the debug console and let's try to run the command.

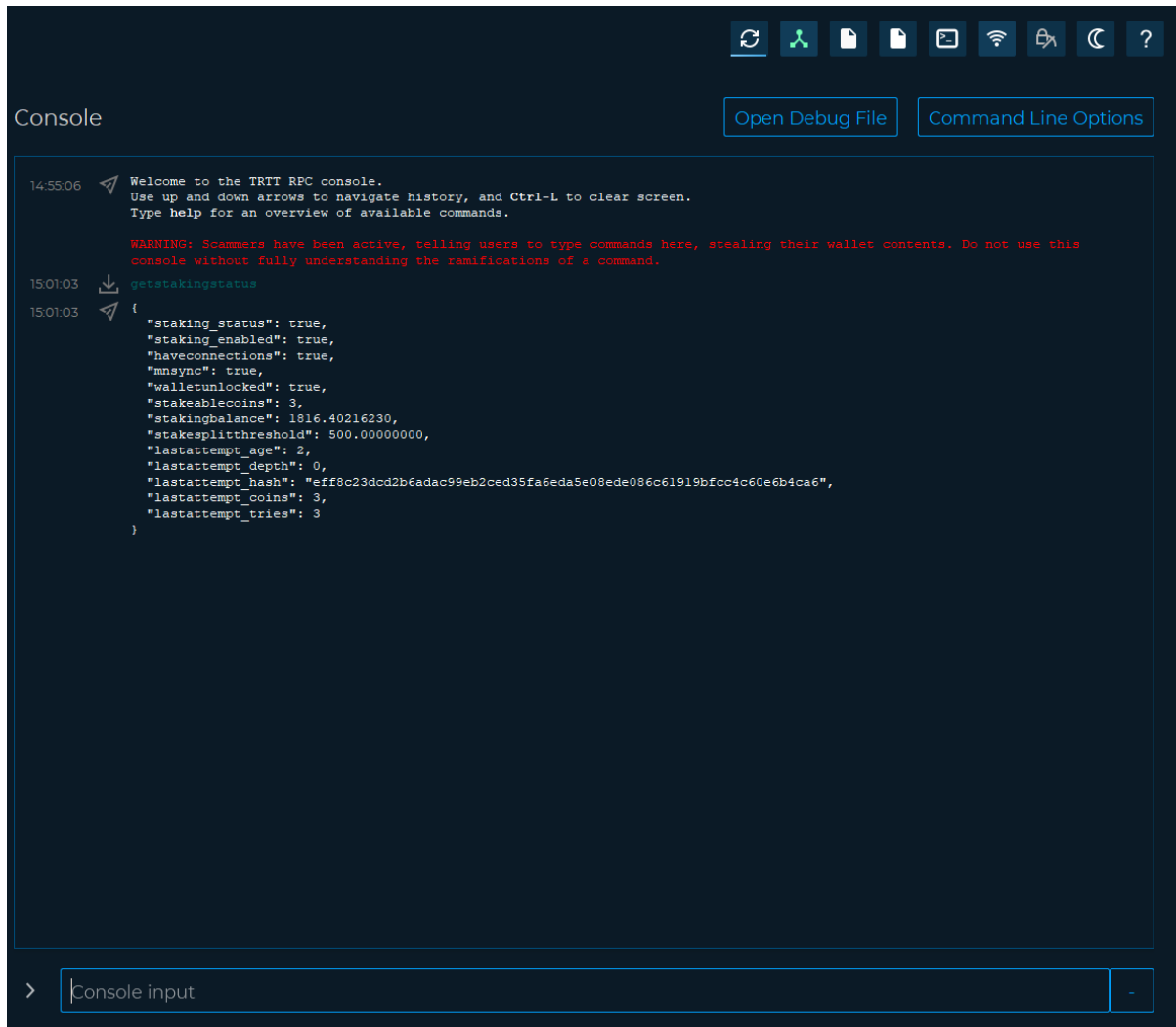


If the command does not generate any error message everything went well.

Common problems

We can check the staking status in detail with the following command

getstakingstatus



The screenshot shows a terminal window titled "Console" with a dark background. At the top right, there is a row of icons: a refresh icon, a share icon, a file icon, a folder icon, a terminal icon, a Wi-Fi icon, a lock icon, a moon icon, and a question mark icon. Below the title bar, there are two buttons: "Open Debug File" and "Command Line Options". The main area of the console displays the following text:

```
14:55:06 Welcome to the TRIT RPC console.  
Use up and down arrows to navigate history, and Ctrl-L to clear screen.  
Type help for an overview of available commands.  
  
WARNING: Scammers have been active, telling users to type commands here, stealing their wallet contents. Do not use this  
console without fully understanding the ramifications of a command.  
  
15:01:03 getstakingstatus  
15:01:03 {  
  "staking_status": true,  
  "staking_enabled": true,  
  "haveconnections": true,  
  "mnasync": true,  
  "walletunlocked": true,  
  "stakeablecoins": 3,  
  "stakingbalance": 1816.40216230,  
  "stakessplitthreshold": 500.00000000,  
  "lastattempt_age": 2,  
  "lastattempt_depth": 0,  
  "lastattempt_hash": "eff8c23dcd2b6adac99eb2ced35fa6eda5e08ede086c61919bfc4c60e6b4ca6",  
  "lastattempt_coins": 3,  
  "lastattempt_tries": 3  
}
```

At the bottom of the console, there is a prompt character ">" followed by a text input field containing "Console input" and a button with a minus sign.

Below is an explanation of the result of the command.

- "staking_status": true|false, (boolean) whether the wallet is staking or not
- "staking_enabled": true|false, (boolean) whether staking is enabled/disabled in tritium.conf
- "haveconnections": true|false, (boolean) whether network connections are present
- "mnsync": true|false, (boolean) whether masternode data is synced
- "walletunlocked": true|false, (boolean) whether the wallet is unlocked
- "stakeablecoins": n, (numeric) number of stakeable UTXOs
- "stakingbalance": d, (numeric) TRTT value of the stakeable coins (minus reserve balance, if any)
- "stakesplitthreshold": d, (numeric) value of the current threshold for stake split
- "lastattempt_age": n, (numeric) seconds since last stake attempt
- "lastattempt_depth": n, (numeric) depth of the block on top of which the last stake attempt was made
- "lastattempt_hash": xxx, (hex string) hash of the block on top of which the last stake attempt was made
- "lastattempt_coins": n, (numeric) number of stakeable coins available during last stake attempt
- "lastattempt_tries": n, (numeric) number of stakeable coins checked during last stake attempt

For staking to be active, the first six values must necessarily be "true".

Below we explain how to solve the most frequent problems

- haveconnections : if false, you don't have connections to the coin network. Make sure you have internet access, consider port being blocked or bad connectivity.
- walletunlocked : if false, click the lock icon in top right, select staking only and enter your passphrase.
- mintablecoins :if false, you either don't have any unlocked coins or they are too fresh and you will need to wait for them to be able to be used for staking. Patience is key. Just leave the wallet open.
- enoughcoins :if false, you need more coins unlocked. There should be no minimum.
- mnsync :if false, wait 20 minutes. If still false, consider to delete mncache.dat and mnpayments.dat files from the data directory.
- staking status :if all of the above is True and this is still False, first try, close the wallet for 30 seconds, open and unlock (if encrypted), wait 5 minutes.

That's everything you need to know about staking.