1. Product overview

The Pirate Hardware Wallet offers the ability to store and access your mnemonic master seed in a secure environment. The hardware wallet is controlled through a USB data link. The unit is powered from the USB link and doesn't have any internal battery storage. The user interface will allow you to perform the following actions:

1) Setup the mnemonic, either creating a new one (24 words) or restoring an existing 12, 18 or 24 word phrase

2) Setup a four digit password that protects access to the unit. The password grid has 54 positions, which equates to (54*53*52*51) = 7.59 million combinations.

3) Once logged in, you can perform two actions:

3.1) Retrieve payment addresses and their accompanying viewing keys.

These you import in Treasure Chest to monitor the transactions on the address and to obtain the balance of the address. In Treasure Chest you can view the

transactions on the address, but not make any payments from that address using Treasure Chest alone.

3.2) Sign (authorise) transactions

In Treasure Chest you can create a transaction, but not process it. The private key of the payment address is located in the hardware wallet. You need to copy

the constructed data to the hardware wallet to authorize the transaction. The authorized data is returned to the user interface, which you submit to the block

chain with Treasure Chest to conclude the transaction.

Note: The unit calculates a 0.25% commission based on the size of the payment made. That equates to 1 for every 400 ARRR spend. The commission is

capped at 15.625ARRR for a payment of 6250ARRR or larger. At the ATH price of ~$16/ARRR, sending 6250ARRR amounts to $100,000USD.

The commission is used to provide funding for ongoing support and development of the wallet. If the projected sales figure of 10,000 units can be

reached and each wallet spends an average of $400/month, which equates to $1/month commission, the total commission will be $10,000/month.

This is barely enough to sustain two junior engineers on the project. We hope that more units will be sold, since Ledger has shown that the market

can support at least 3 million units. If we can sell 30,000 units it would make this a tremendous success story. In order to reach a wider audience

more projects/coins will need to be supported. If Pirate gains wider, every day adoption and people spend more than $400/month it would

also boost revenue. No venture capital is used for this project. Therefore, the end customer funds all the expenses. On the flip side, no VCs control the

destiny of the project. No capital is used to subsidize the hardware or the salaries of the developers. We hope this project gives you an opportunity to

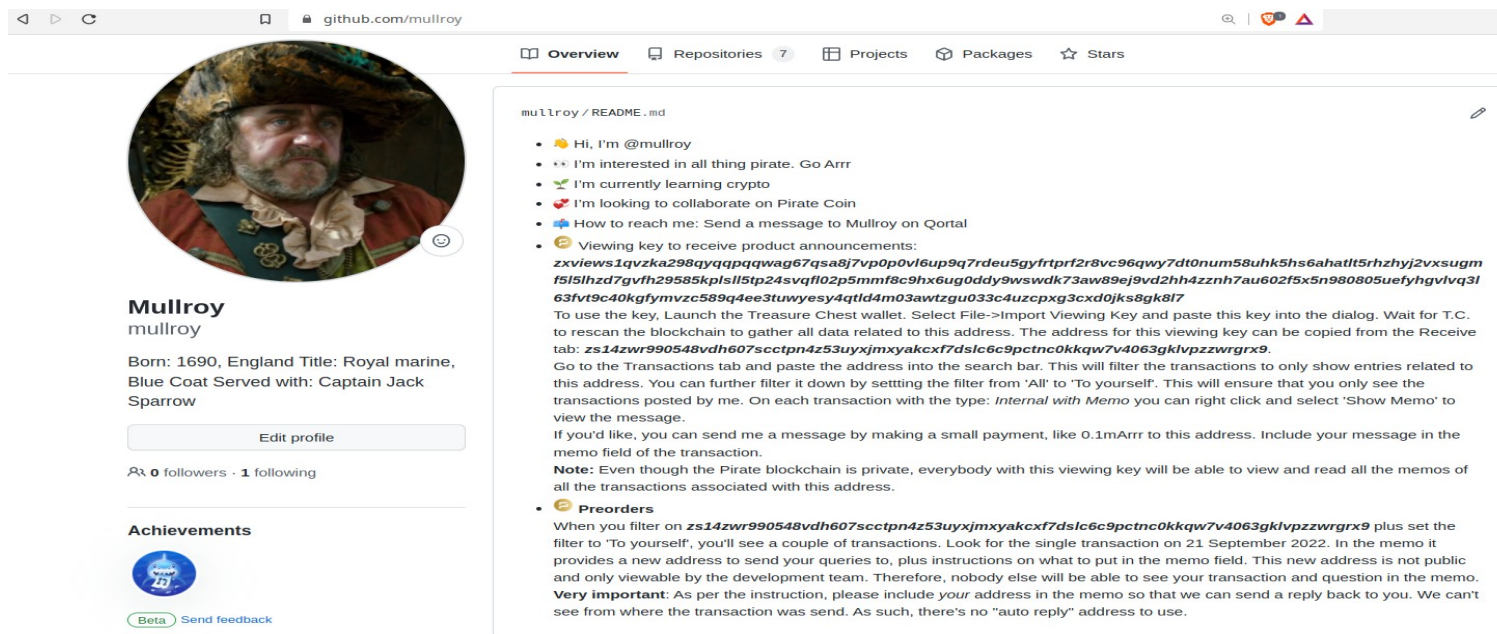live out the Anarcho-Capitalist mantra.

2. Roadmap

- The immediate phase is to streamline the production facility and distribution channels.
- Add support for all the Pirate wallets (Lite & Mobile). The Treasure Chest wallet is currently the only Pirate wallet that supports the hardware wallet.
- Integrate the functionality of the hardware wallet user interface directly into the Pirate wallets.
- Add additional projects/coins to the unit, with a bias towards privacy based projects.
- As additional coins are added we'll aim at providing integration at the communication level, so the existing PC GUI's of those projects can be reused.

3. Order directly on the blockchain

- Prerequisites: You need Treasure Chest Wallet v5.5 or later. This guide assume you've already bought some Pirate coins (ARRR) at KuCoin or TradeOgre and transferred it to one of the addresses in your Treasure Chest wallet. The guides at pirate.black/wallets/treasure-chest can assist you with setting it all up.

    Note: You can always make a small payment first, like 0,001ARRR to make sure everything works fine and the funds were received correctly before making a larger payment. A crypto currency payment cannot be reversed if you've entered the details incorrectly or sent the coins to an unintended address.

- The presale price of the unit is $280 (United States Dollar) for the first 100 units, thereafter the price will be $330, international shipping included. The transaction is done in ARRR, quoted at the current USD/ARRR spot price.

- Visit https://github.com/mullroy. Copy the viewing key and its public key from the bio. Please visit the site for the latest information & updates.

- Start Treasure chest wallet and let it synchronize to the blockchain.

  <u>Backups</u>: At this point it might be a good time to backup your blockchain data. Its about 14.5GB in October 2022 and constantly growing. The local copy of the blockchain can get corrupted if the wallet is not shut down properly or the hard drive runs out of disk space. To backup the blockchain you need to first shutdown the Treasure Chest wallet. Then locate the data directory for the wallet for your operating system. On linux its located in: $HOME/.komodo/PIRATE. You need to backup the **blocks** and **chainstate** directories.

  <u>Scan time</u>: The blockchain is rescanned to build up the transactions and balance for a newly imported address. On an Intel i5 with solid state hard drive the fastest we've seen the task complete was 25 minutes. Some members have reported that it took up to a day for the rescan process to complete with similar or faster hardware. Please allow the wallet to complete the rescan and do not interrupt the process.

- Select File->Import Viewing Key
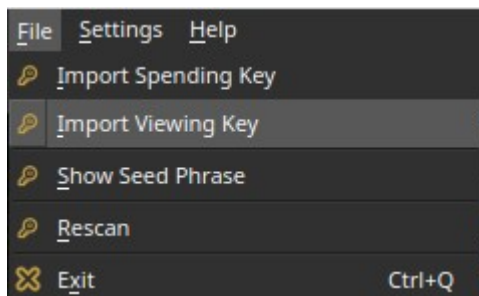
- Paste the viewing key, starting with zxviews, which you obtained from github, into the dialog and press OK.

  Treasure chest will rescan the whole blockchain to build up the transaction history & balance of the spending address associated with the viewing key.
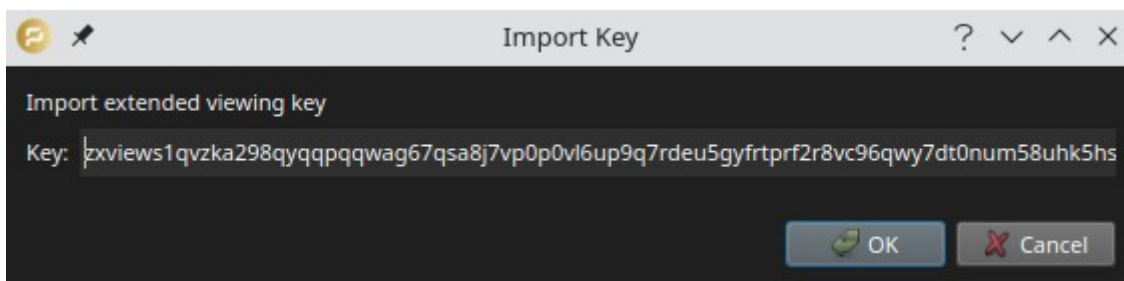
- On the Receive tab you'll see the new public address among your other addresses.
  The 'Mine' column doesn't have a check mark, since you're only viewing the address
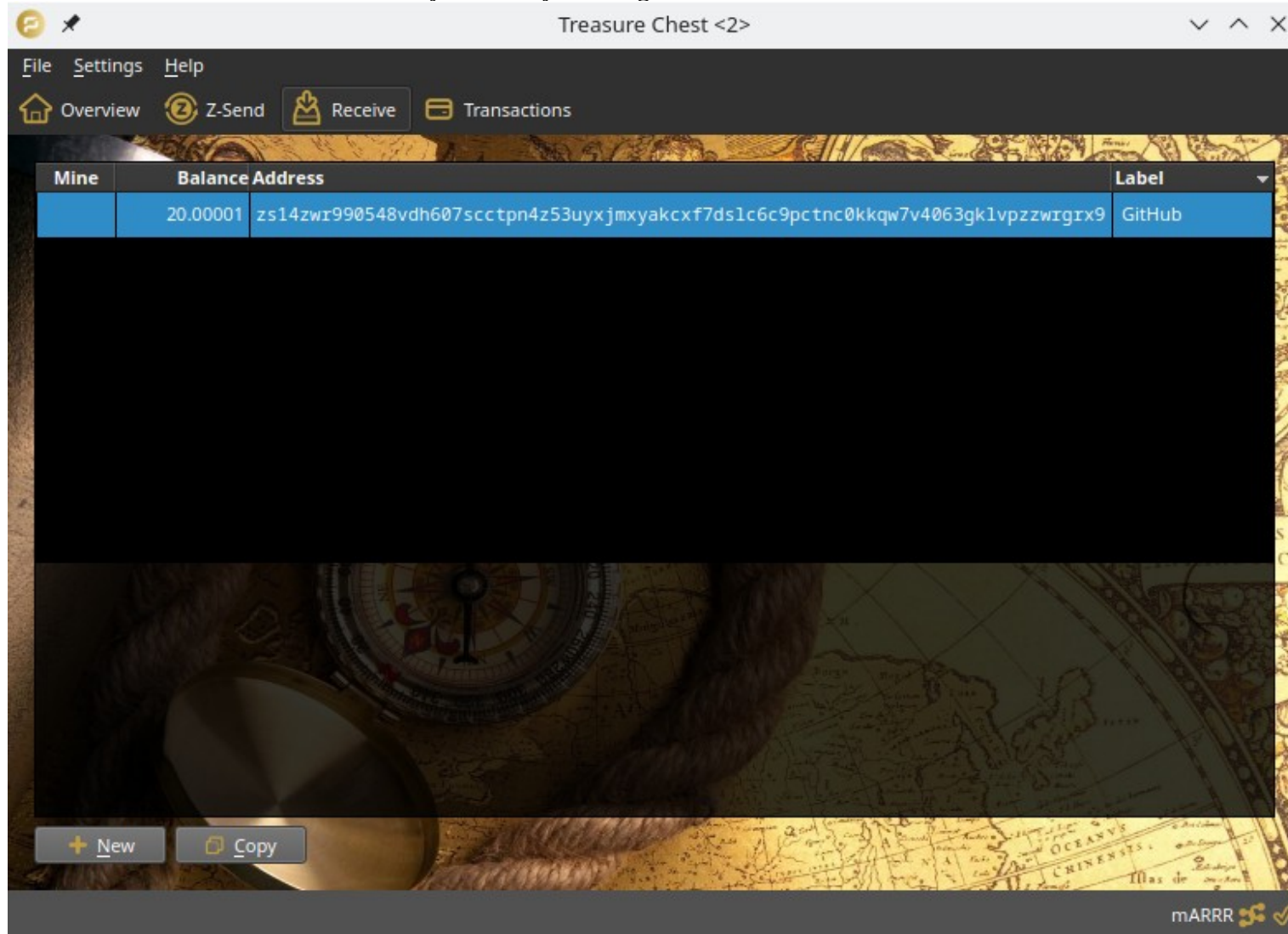
- On the Transaction tab you can filter the transactions. Paste the viewing key into the filter box and set the filter type to: 'To yourself'. This will have the effect that you'll only see the messages that the development team posted to that address. If there are other types of posts to the address, please ignore them.
- The memos of 14 September 2022 can be ignored. The setup was simplified, as described in the memos for 21 Sept. 2022 & 25 Sept. 2022

- Memo of 21 September 2022
  This memo contains the address to which you should send your inquiries. This address is blanked in the photo so you'll obtain the address directly from the memo. The purpose is to prevent somebody from giving you the wrong address.
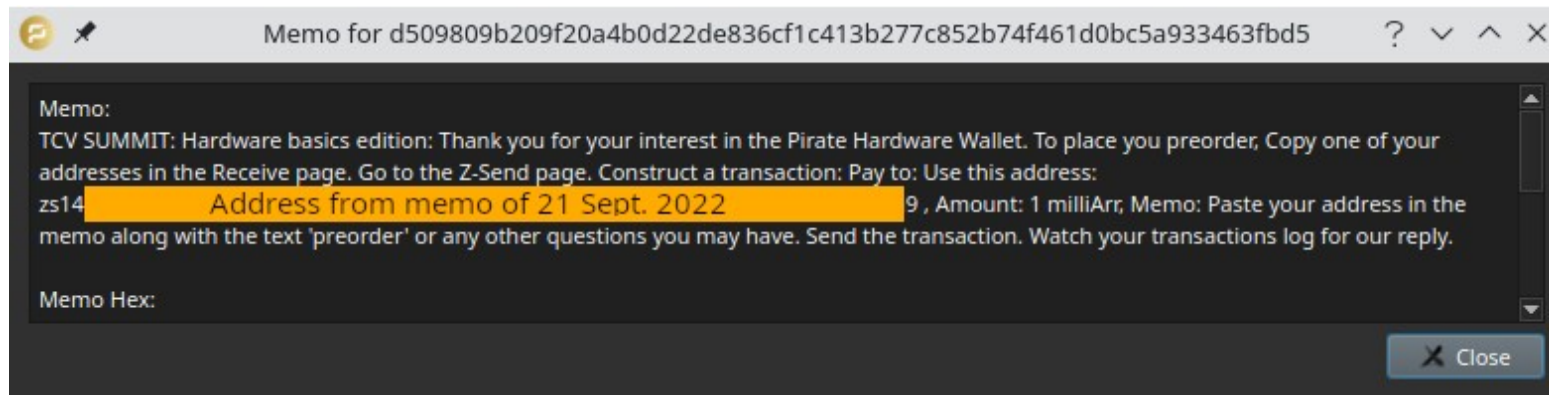
- We suggest that you create a new address that's only used for purchasing the hardware wallet. It will help you if you need to filter your transactions to look at specific memos. In order to do this you'll have to do two things:
  1) Create the address
  On the Receive tab, click the 'New' button.
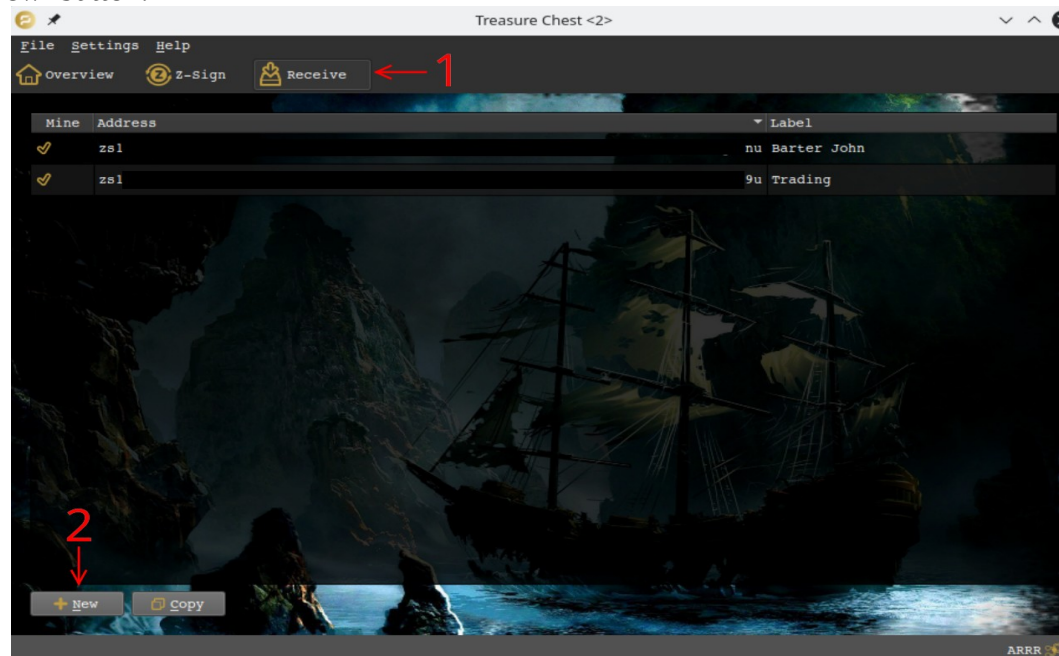
- Enter a label for the new address, like 'Purchase hardware wallet'. This label is stored in the wallet file. The label will not be regenerated when you restore your addresses from the mnemonic master seed.
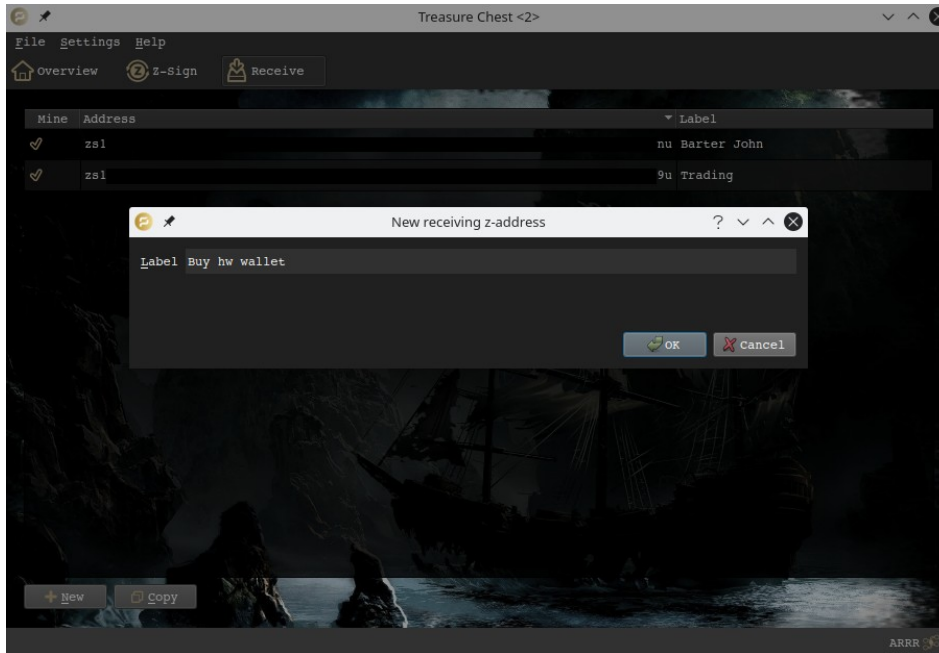
Right click on the address and select 'Copy Address'
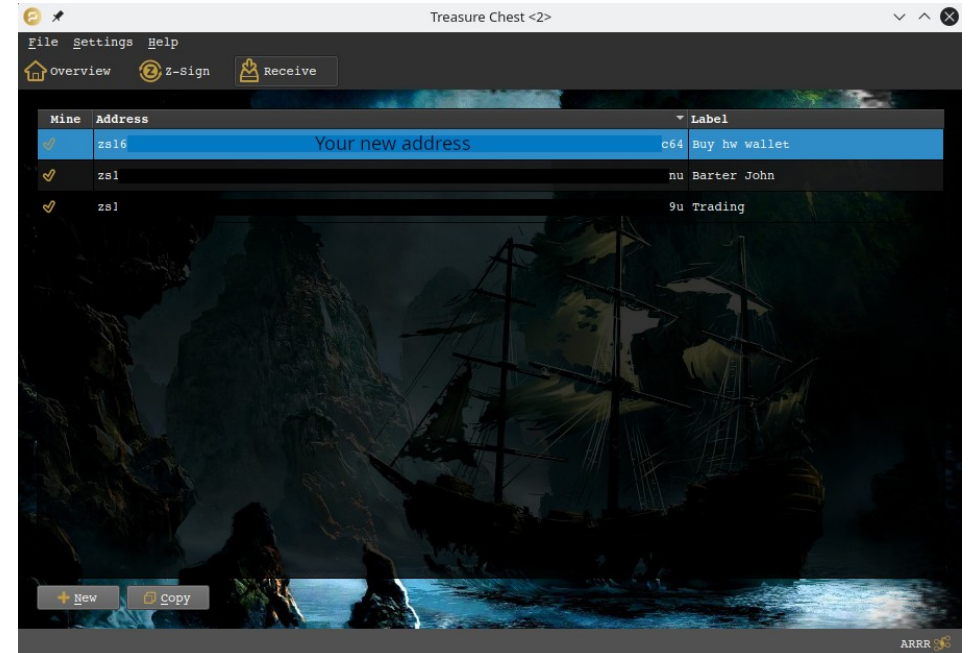
2) Fund the address
You need funds in your own address in order to be able to send a transaction from it. You can make multiple payments to an address. You can first make a small payment to the address to see that you've received the funds in the address. More important, you have to make sure you can spend the funds in the address. For the first interaction with the address 1 ARRR or less is sufficient.

If you don't have any ARRR, you can open an account on an exchange like KuCoin, which supports Pirate Coin. You have to deposit some funds onto the exchange. Many accept credit card payments. Anonymous exchanges, like TradeOgre doesn't require identification, but you can't deposit 'fiat currency', like US dollar or Euros directly to the exchange. On the exchange you trade your USD for Pirate coins (ARRR). In your account you'll be able to see the balances of the coins you own on the exchange. For each coin you can perform deposits and withdrawals. Select 'withdrawal' of Pirate coin. Use your **'new address'** to send the coins to. Enter the amount of coin, like 0.1ARRR or 1 ARRR. After the request is submitted, the exchange may show that its 'pending' and then change to 'send' as soon as the funds left the exchange.

In Treasure Chest, go to the 'transactions' tab. As soon as Treasure Chest picks up the transaction from the blockchain it will appear here. On the left a picture of a watch will fill up to show the number of network confirmations. After 6 confirmations you'll be able to spend the funds.

- Create the presale request:

Construct the transaction as described in the instruction memo of 21 Sept 2022. You need to paste your own address in the memo field in order for us to know from where the funds originated. We'll use this address to communicate back to you. The encrypted transaction prevents us from seeing the sender address of the 'pay from' field.

On the Z-Send tab fill in the following items:
 Pay From: Select your **'new address'**
 Pay To: Paste the address from the 21Sept2022 memo here, starting with **zs14....9**. This initiates the communication to us.
 Amount: 0.001 ARRR
 Memo: preorder : **'new address'**
  Note: You can send us any questions you may have about the h/w wallet, as long as you include your **'new address'** so we know where to send the reply to.
 Transaction Fee: You can leave it at 0.0001 ARRR
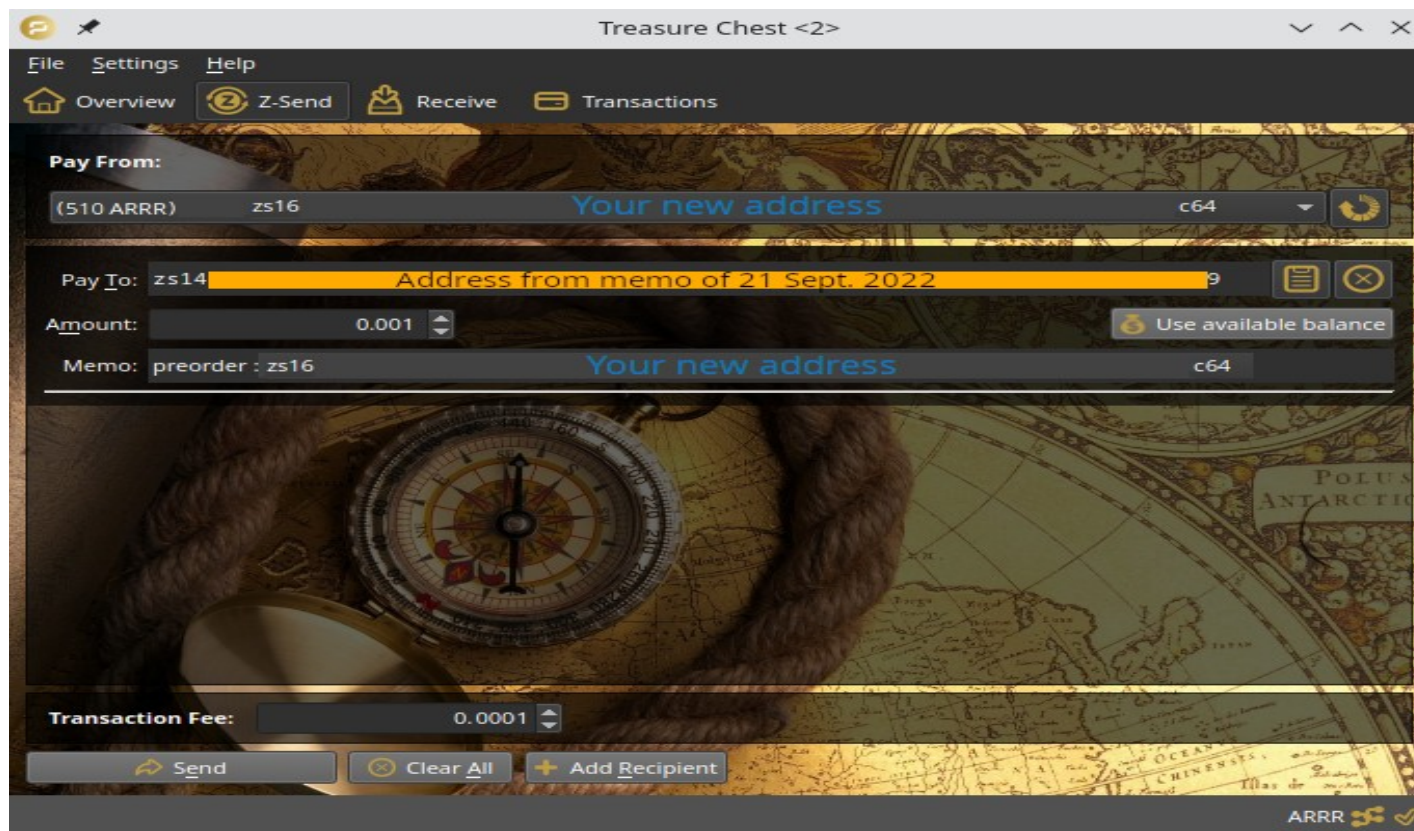
Send the transaction. Wait for the network to process the transaction. On the Transactions tab you can see the confirmation progress.

- Presale response
  You will receive a response from us, send to your **'new address'**, as was included in the memo of your presale request.
  This message contains a **'dedicated address'** assigned to you specifically. With your **'new address'** and our **'dedicated address'** we've established a secure communication channel between us.
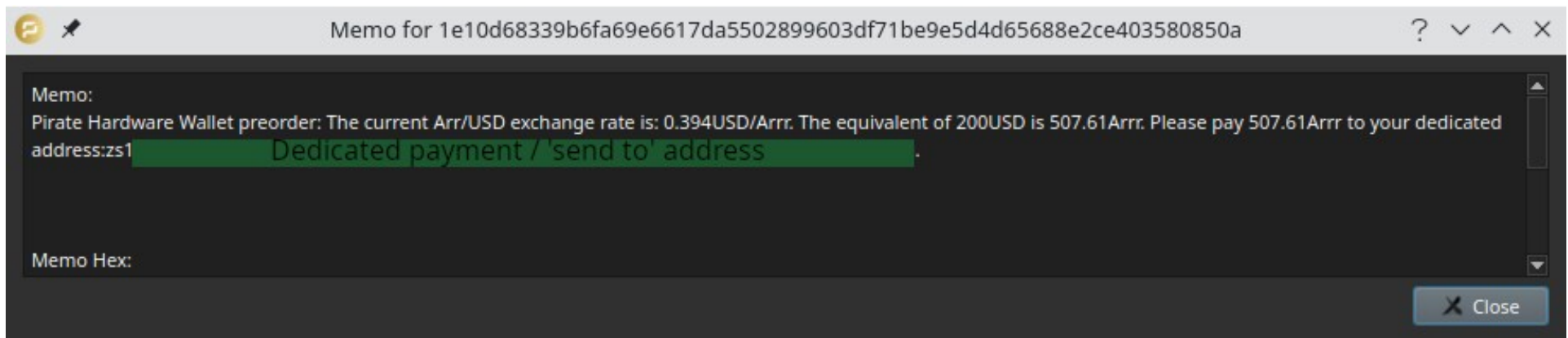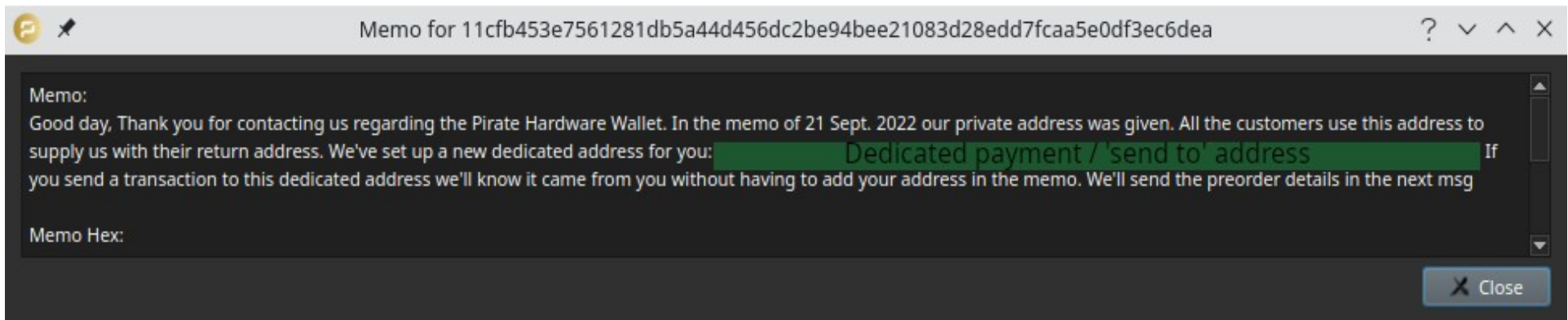
- Create the purchase:
  Construct the transaction as described in the quotation that was send to you. If somebody assisted you to purchase the wallet they may have provided your with their **'referral address'**. They will earn a $10 commission for marketing the wallet on our behalf. Section 5 below describe how you too can set up your referral address to earn future rewards.

  On the Z-Send tab fill in the following items:
  Pay From: Select your **'new address'**
  Pay To: Paste the **'dedicated address'** from the quotation here
  Amount: Use the amount from the quotation here, i.e. 507.61ARRR
  Memo: 'Payment for hardware wallet'. If you have a sponsor/referral, include the **'referral address'** too
  Transaction Fee: You can leave it at 0.0001 ARRR
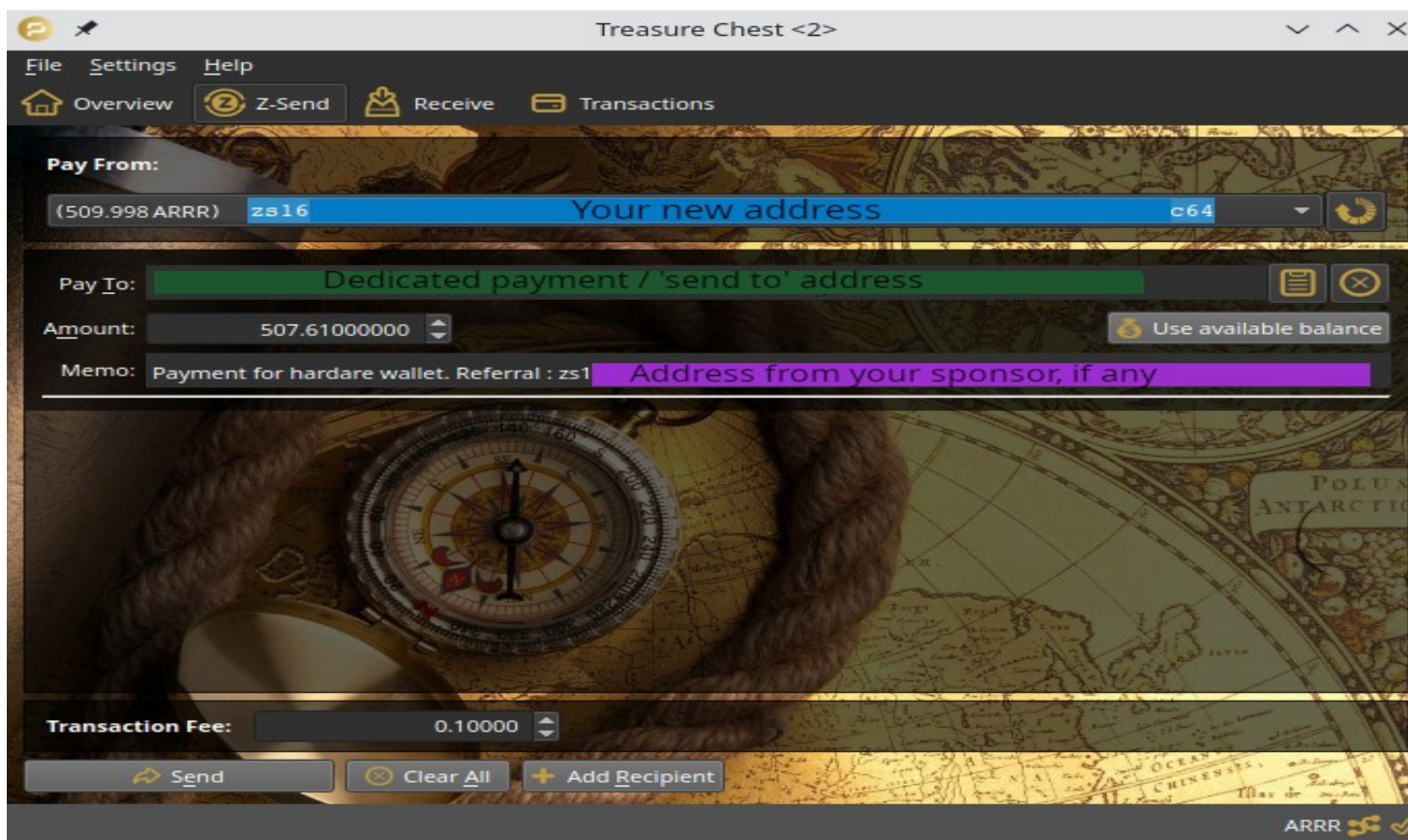
 Send the transaction. Wait for the network to process the transaction. On the Transactions tab you can see the confirmation progress.
  After receiving the purchase, we'll send you an acknowledgment to your **'new address'**

4. Order from other sources

We're in the process of setting up a website with a PiratePay payment processing gateway. The website will be able to accept payments directly. We'll make an announcement on github.com/mullroy as soon as it's operational. The hardware wallet is advertised on the Pirate barter website: www.bARRRter.com

5. Referrals

The referral program is designed to give something back to our customers. If you've purchased a hardware wallet you can register another address with us, called the **'referral address'.** If you introduce new customers to Pirate and the hardware wallet you're helping with the marketing effort in your local area, like family, friends or co-workers. If you've got other social media channels or reach, apart from the Pirate Discord or Pirate and TCV Telegram groups, we'll appreciate it if you can mention it to your audience.

We suggest you refer to this document to help the newcomer to work through the intricacies of setting up the payment channel.

For each sale that includes your **'referral address'** we'll send the equivalent of $10 to your **'new address'**. It could be a way for you to recoup your own wallet cost after 28 sales. When the new customer creates their sales transaction, as shown in section 3: Create the purchase, they have to include your **'referral address'** in their memo field: "*Payment for hardware wallet. Referral: zs1kxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx0*"

How to set it up:

1) You've done the preorder and actual payment for your hardware wallet.

2) Create a new address in your Treasure Chest. Use a label to easily identify the address: **'HW wallet referrals'**

3) Send your **'referral address'** to us:

      On the Z-Send tab fill in the following items:
       Pay From: Select your **'new address'**
       Pay To: Use your **'dedicated address'**
       Amount: 0.001 ARRR
       Memo: Referral address : Add your **'referral address'**
       Transaction Fee: You can leave it at 0.0001 ARRR
    After receiving the purchase, we'll send you an acknowledgment to your **'new address'**

On our side we've linked your **'referral address'** to your **'new address'** and will send you and acknowledgment message. Any time you assist somebody to purchase a hardware wallet, share your **'referral address'** with them and show them how to include it in the memo when they make the payment. Once we receive the payment we'll pay the equivalent of $10's ARRR to your **'new address'**. We won't send any transaction to the **'referral address'**. Since this address is public and shared with people, you may receive SPAM messages (transactions) send to it. Ignore any messages that are received on the **'referral address'**.