

UNIFY

DOCUMENTATION 2018

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WHAT IS CRYPTOCURRENCY?

Cryptocurrencies, also known as *virtual currencies*, are totally different from U.S. dollars or euros. They live online in the blockchain without the support of any government. Technically speaking, cryptocurrencies are restricted entries in a database. Specific conditions must be met to change these entries. Created with cryptography, the entries are secured with math, not people. Restricted entries are published into a database, but it's a special type of database that is shared by a peer-to-peer network. For example, when you send some UNIFY to your friend Cara, you're creating and sending a restricted entry into the UNIFY network. The network makes sure that you haven't performed the same entry twice; it does this with no central server or authority. Following the same example, the network is making sure that you didn't try to send your friend Cara and your other friend Alice the same UNIFY coins.

The peer-to-peer network solves the "double-spend" problem (sending the same UNIFY coins to two people) in most cases by requiring every peer to have a complete record of all the entries made within the network. The entire history gives the balance of every account including yours. The innovation of cryptocurrency is to achieve agreement on what the history is without a central server or authority.

Proof of work(POW) and Proof of stake(POS)

Cryptocurrencies are generated by the network in most cases to incentivize the peers, also known as *nodes* and *miners*, to work to secure the network and check entries. Each network has a unique way of generating them and distributing them to the peers.

Bitcoin(POW), for example, rewards peers (known as *miners* on the Bitcoin network) for "solving the next block." A *block* is a group of entries. The *solving* is finding a *hash* that connects the new block with the old one. This is where the term *blockchain* came from. The *block* is the group of entries, and the *chain* is the hash. Hashes are a type of cryptologic puzzle. Think of them as Sudoku puzzles that the peers compete to connect the blocks.

UNIFY uses a newer system to generate coins, called *proof-of-stake*. Proof-of-stake works through coins being held in a wallet for a certain period without spending them. Once these coins reach a certain *age* - a period during which they have not been moved — they generate a small interest percentage. The maximum stake age for UNIFY is 30 days, at 30 days your coins will be at maximum maturity for staking. Maturity is how "ripe" your coins are for staking. The more coins you hold the more coins you stake. The whole principle works in the same way as a bank's savings account, but in a completely decentralized manner, with the user being in full control of their funds at all times. maximum maturity for staking. Maturity is how "ripe" your coins are for staking. The more coins you hold the more coins you stake. The whole principle works in the same way as a bank's savings account, but in a completely decentralized manner, with the user being in full control of their funds at all times.

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BUYING UNIFY

Why should I buy unify?

Unify coin is a community driven cryptocurrency like Bitcoin. Our main goal is to create a simplified environment in which the acquisition and trade of cryptocurrency is easy. Through accomplishing our goal we would like to encourage people of all skill levels to become involved in cryptocurrency. We envision a future in which investments encourage the growth of long term projects and strategies that benefit society. UNIFY was created in June 2017, Unify Coin will be useable for financing projects via the Unify Crowdfunding platform. It will also be used as the payment method for the Unify Market. Unify Coin is already tradeable on multiple exchanges and has dedicated wallets. Also we plan on bringing out a UNIFY ERC20 based token, compatible with wallets that support this standard. Funders will get a certain amount of Unify Tokens in return for a successfully funded project. The token will be tradable on exchanges and spendable on the Unify Market. In the end we would like to port this to the Crowdfunding platform which utilizes cryptocurrencies.

Within the Crowdfunding platform, funders will be able to back up the project with the Unify Coin. Alongside standard bonuses from the developer, funders will get a certain amount of Unify Tokens in return for a successfully funded project. Beside the platform we want to bring out a cryptocurrency based market. This would be a site where you can buy and sell crowdfunded products as well as other products with most popular cryptocurrencies. The market will be open to anyone who wants to sell their products as long as it is legal in most countries. Please join us and help our community spread the good word. It all starts with you! Take a look at the website and don't forget to join our telegram/discord/twitter/Reddit or Facebook community!



Where can I buy unify?

You can buy unify (while writing this tutorial) at more than 7 different exchanges. Now you may be wondering: "Why 7 exchanges? What's the difference?" Well there isn't a big difference between the exchanges. The biggest difference is probably their trading/withdrawing fee and their volume. If you are new in crypto I would highly recommend you to use Cryptopia or Novaexchange. These two exchanges are the easiest to use in my personal experience. If you would like to use another exchange these are your options: cryptobridge, coinexchange.io, mercatox, blockbid.au and yobit.

Where can I buy bitcoins?

I hope you understand that you can't buy unify without funds on your exchange account. So how do you buy BTC to trade on an exchange. There are like a thousand ways to buy bitcoins but if you are new in crypto I would highly recommend Coinbase or Litebit. Here you could buy bitcoin with Dollar Euro and credit card!

How do I buy unify?

You're probably a bit nervous if this is going to be your first crypto purchase on an exchange. And you probably don't know what to do once you logged in into your exchange account. That's why unify makes a super simple video to make you better understand how to secure your exchange account, how to buy some bitcoin funds and of course how to buy unify. You can find this video here.

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DOWNLOADING THE WALLET

Exchange wallet

I hope you were successful in acquiring your first Unify coins. But just like the Dollar, Euro, etc. you need to store your coins somewhere safe. You could use the exchange wallet. An exchange wallet is like a Bank. Someone else is holding your money for you, and that's probably not what you want. So what are the other options? There are two at this moment. You can choose to use the web-wallet (the Unify main developer is the manager of this wallet). You can find the wallet here. Or you could store your coins on a personal Windows, Mac or Linux computer. With the QT Wallet, you have complete control over your own coins. You can find this wallet on the official website under Wallets.

Windows

To set up the windows wallet you only need to start the Unify-qt.exe. The wallet will open and the syncing of the Unify block chain will begin.

MAC

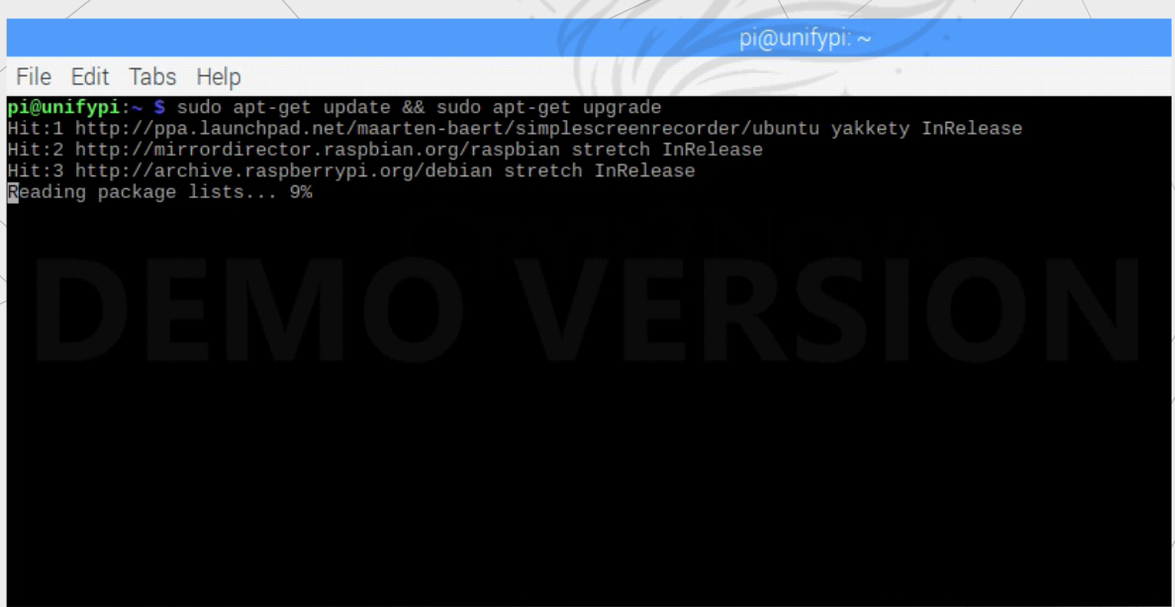
To set up the Mac wallet double click the Unify-Qt-OSX-v1204.dmg and copy the file to the Application folder. Start the wallet and the syncing of the Unify block chain will begin.

Linux (included raspberry Pi)

The Linux/Raspberry Pi installation is more advanced than the windows/mac installation. But because the Unify team loves you, we make it as easy as possible for you. Just copy and paste these commands and you should be fine. If you are in real trouble you can contact @jasux. You can find him in the official Unify telegram group.

1. First we need to download and install the newest updates

sudo apt-get update && sudo apt-get upgrade



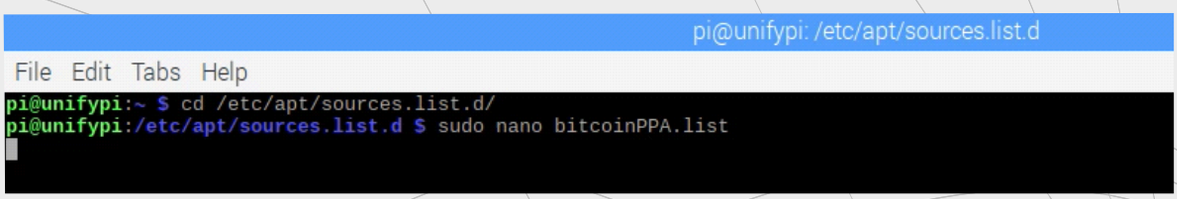
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2. Next install the following major dependencies packages by: (don't forget to click Y)
sudo apt-get install git build-essential libtool autotools-dev autoconf pkg-config libssl-dev libcrypto++-dev libevent-dev libminiupnpc-dev libgmp-dev libboost-all-dev devscripts libdb++-dev libsodium-dev

3. Next install the following QT dependencies packages by: (don't forget to click Y)
sudo apt-get install libqt5gui5 libqt5core5a libqt5dbus5 qttools5-dev qttools5-dev-tools libprotobuf-dev protobuf-compiler libcrypto++-dev libminiupnpc-dev qt5-default

4. The next thing we need to install are the bitcoin PPA files, these files are necessary for the compiling process.
cd /etc/apt/sources.list.d/
sudo nano bitcoin.list

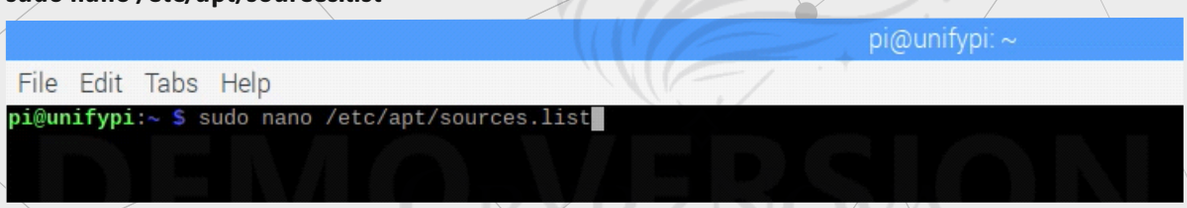


5. Now paste to following line:
deb-src http://ppa.launchpad.net/bitcoin/bitcoin/ubuntu artful main

6. Press ctrl X and Y and enter the following commands:
sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv C70EF1F0305A1ADB9986DBD8D46F45428842CE5E
sudo apt-get update

7. We're almost ready to start the compiling process. We only need to change the libssl version to an older version. We can do this by the following commands:
cd && sudo apt-get remove libssl-dev

8. Set your repository list to point to "jessie" instead of "stretch", and save and exit this by ctrl x and clicking y:
sudo nano /etc/apt/sources.list



DEMO VERSION
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9. If you changed it to Jessie, update again and install libssl-dev again.
sudo apt-get update sudo apt-get install libssl-dev

10. Now let's get started. First we will make a folder for the Unify wallet by:
mkdir wallets

11. If the folder is made we move into that folder by the following command:
cd wallets

12. Now we need to clone the Unify source(If you want to compile another wallet you need to clone the source from the coin you want to compile from github. Mostly you can find a link to the source on Bitcoin talk.) We can do this with the program git, we installed that in step 2.
git clone https://github.com/SBDomains/unify-source.git

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```
pi@unifypi: ~/wallet/unify-source
File  Edit  Tabs  Help
pi@unifypi:~/wallet $ git clone https://github.com/SBDomains/unify-source.git
Cloning into 'unify-source'...
remote: Counting objects: 956, done.
remote: Compressing objects: 100% (17/17), done.
remote: Total 956 (delta 7), reused 0 (delta 0), pack-reused 939
Receiving objects: 100% (956/956), 4.32 MiB | 2.39 MiB/s, done.
Resolving deltas: 100% (288/288), done.
pi@unifypi:~/wallet $ ls
unify-source
pi@unifypi:~/wallet $ cd unify-source/
pi@unifypi:~/wallet/unify-source $ ls
contrib  COPYING  doc  INSTALL  qa  README.md  share  src  Unify-qt.pro
```

13. If the cloning is done you will see there is a new folder. You can see this folder by running the ls command:
ls 8

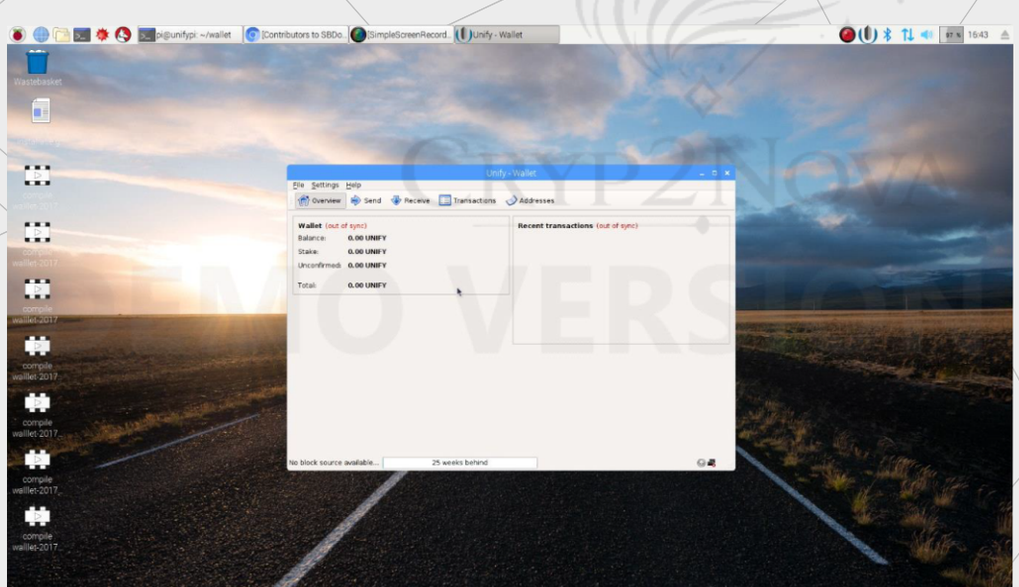
14. Now let's move into the source folder as root by typing: (if you are using a different wallet you need to replace "unify-source" with the folder name you found with the ls command)
sudo -i

cd /home/pi/wallets/unify-source/

15. This is one of the last steps. We are going to compile the wallet right now. This can take a while! don't worry just grab a beer and wait. We can start the compiling by the following command:
sudo qmake && sudo make

16. If it's all done you we be back in the ~/wallet/unify-source$ folder. We can now run the wallet just by typing: (use the name of the wallet you built if you're are compiling another wallet. you can find it by typing ls)
./unify-qt

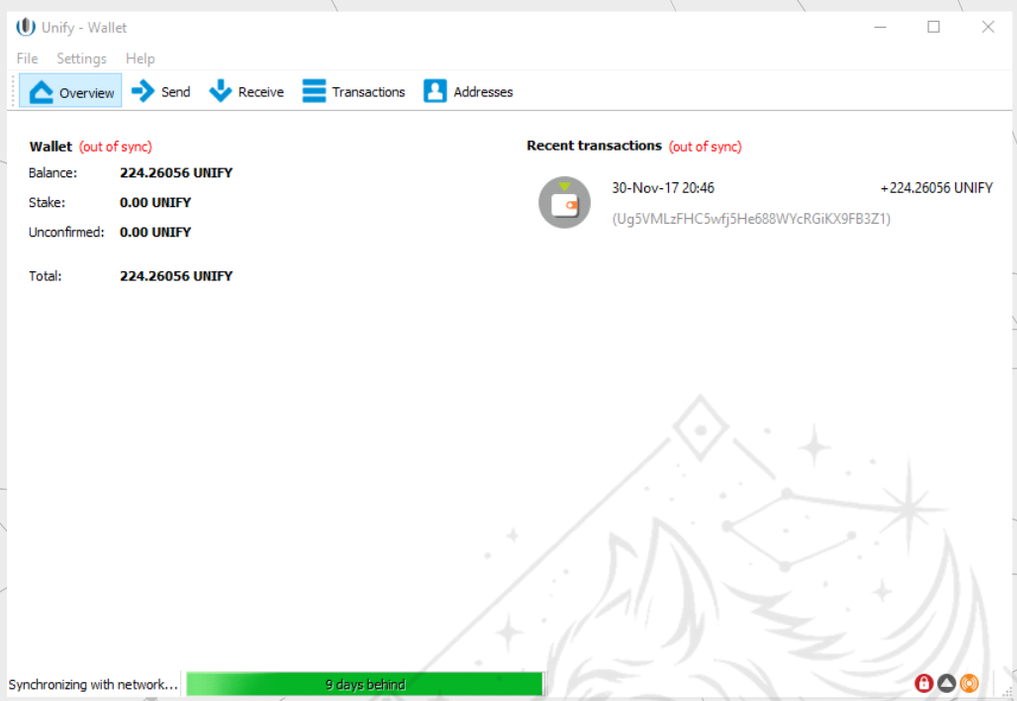
17. To make life easier we can make a shortcut on our Desktop. We do this by typing:
cp unify-qt /home/pi/Desktop
Congrats! You got a wallet running on your raspberryPI!!



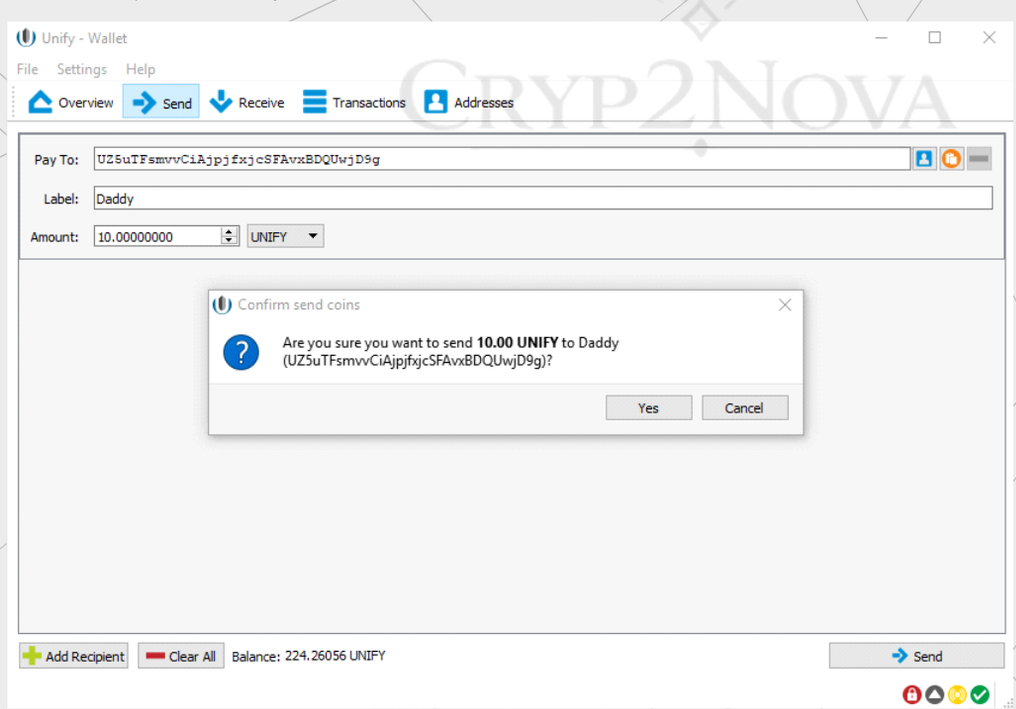
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NAVIGATION IN THE WALLET

If you're new to crypto you may not know how the wallet works, or how to navigate within your wallet. So I will give a short quick overview through the wallet. When you open it up you will probably see something like this. This is the startup screen, here you can see if your wallet is synced, your balance, and some recent transactions.

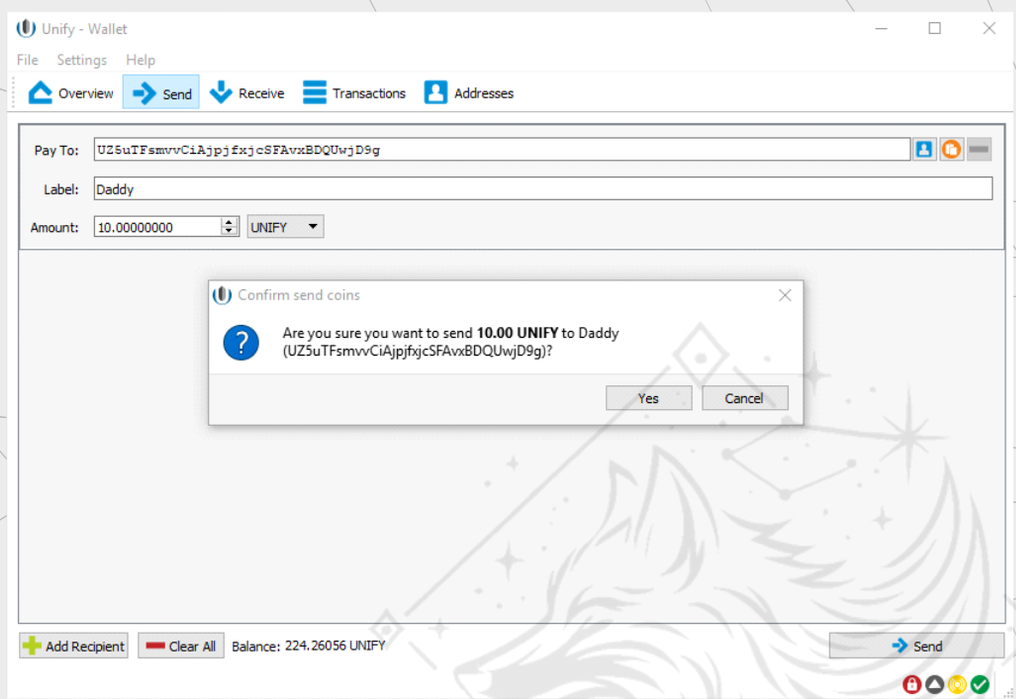


When you move to the "send" tab you will see the following. Here you can send funds to another address. As an example, I am sending 10 unify coins to my Daddy. Under "Pay To" you put the address you want to send your coins. You could also select an address from your saved addresses by clicking on the "blue/white person" button. The "Label" isn't required, it is for yourself to create some overview in your transactions. The "Amount" is exactly what it says. To send click on the "send" button in the bottom right corner. You need to confirm your transaction again and when you click yes, you need to fill in your password (unless you don't have a password, but I strongly recommend that you do create one). That's all you need to know to make a transaction.

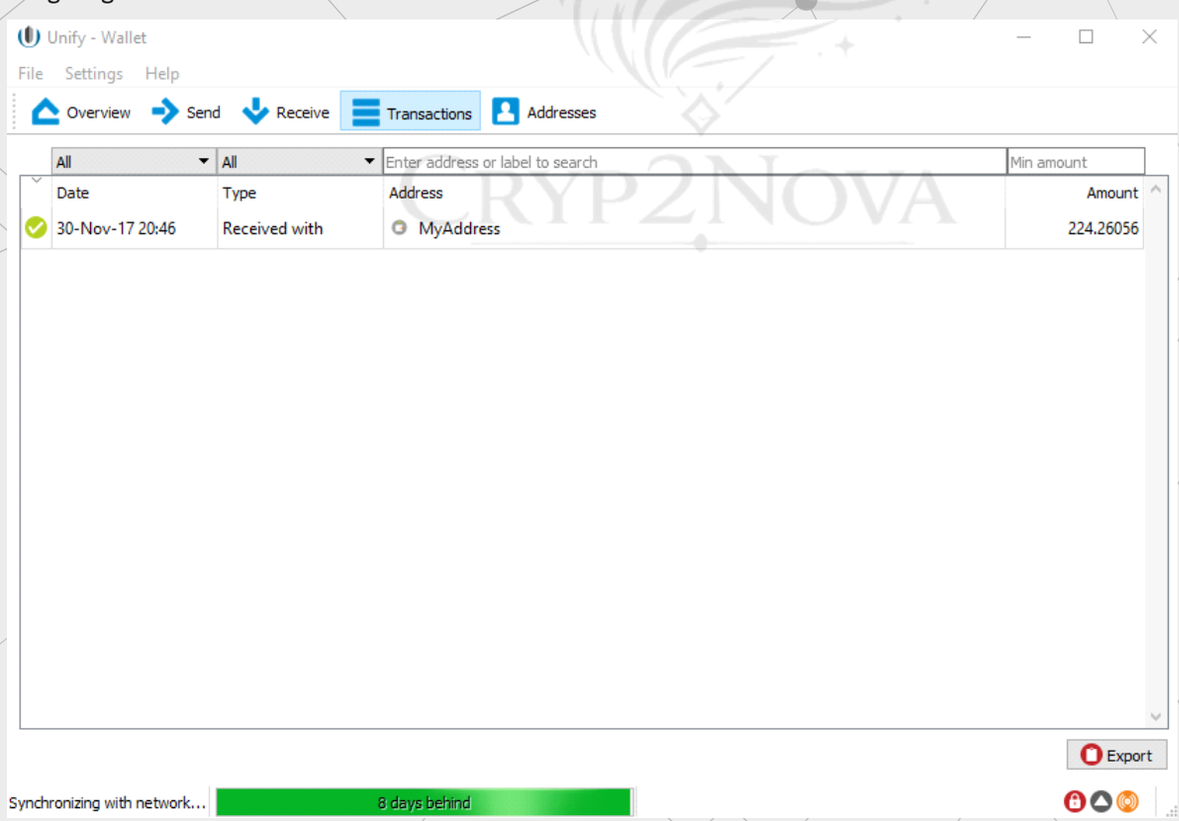


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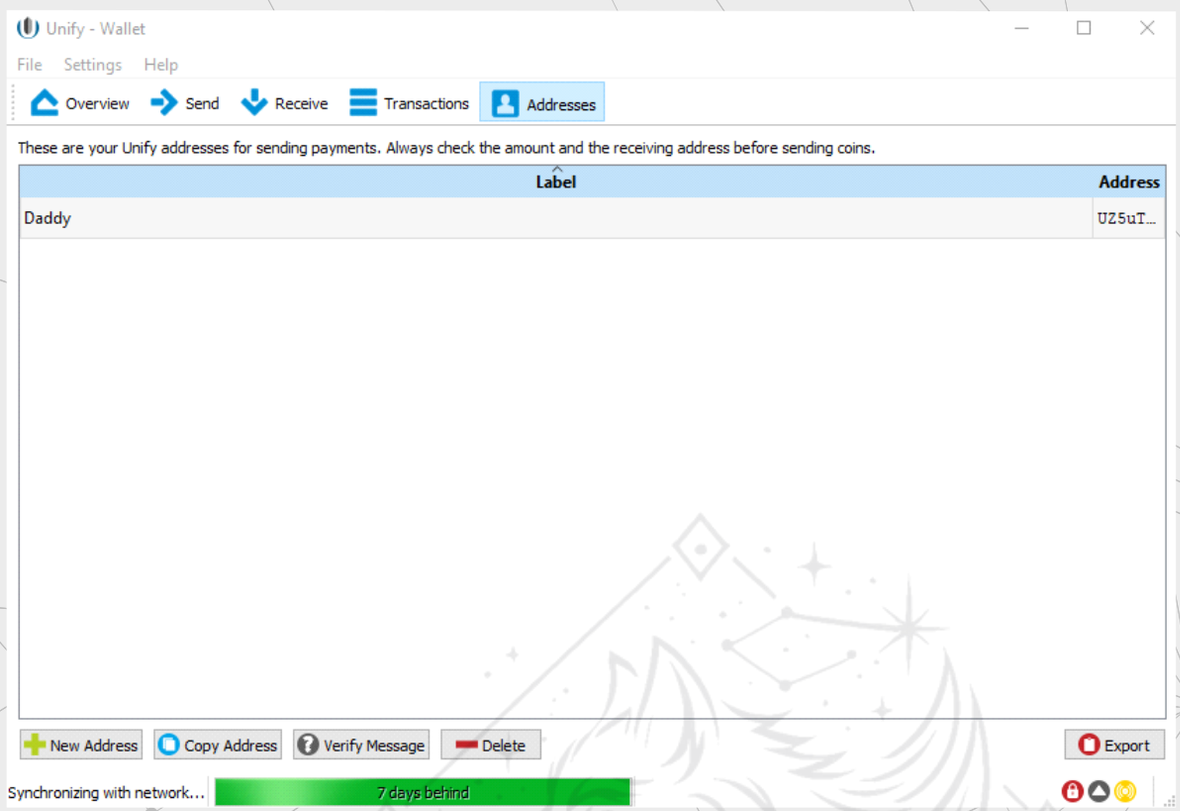


The next tab we see is the "Transactions" tab. This tab provides you with an in depth history of your incoming and outgoing transactions.

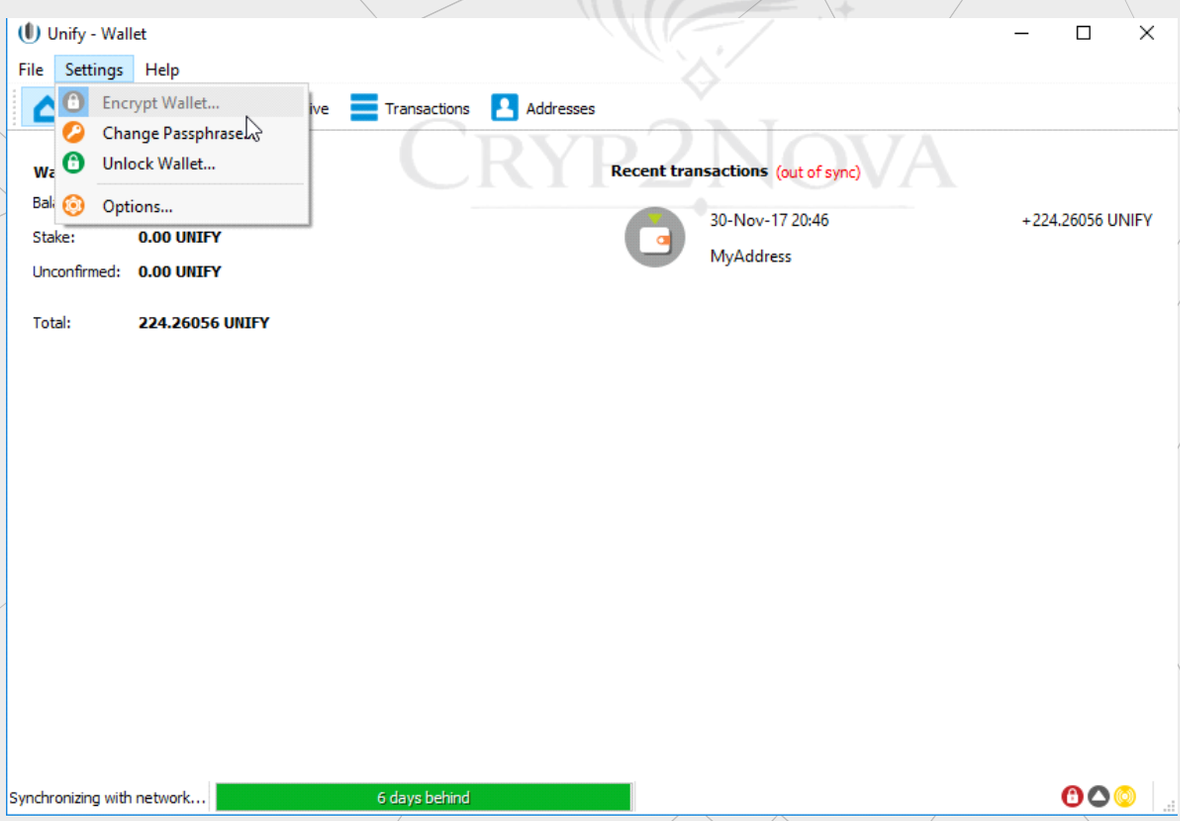


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The last tab we see in the Unify wallet is the "Addresses" tab. Here you can save addresses like phone numbers in a cell phone. This is simply so you are able to select these addresses in the "Send" tab to make transacting easier.



The last thing I will show you in the navigation is where you can encrypt your wallet. Go to "settings" at the top left, and click on "encrypt wallet". A pop up box will show up and ask you to enter a password. Fill in your password twice and save it. (**If you forget this password there is no way to recover your coins**). Restart your wallet. After restarting your wallet will be encrypted. If a hacker steals your wallet.dat it's useless to them without your password. They can't do anything with it because it's encrypted, they would need your password to send any coins. Always use a password that you do not use anywhere else to encrypt your wallet, and never ever tell anyone else that password.

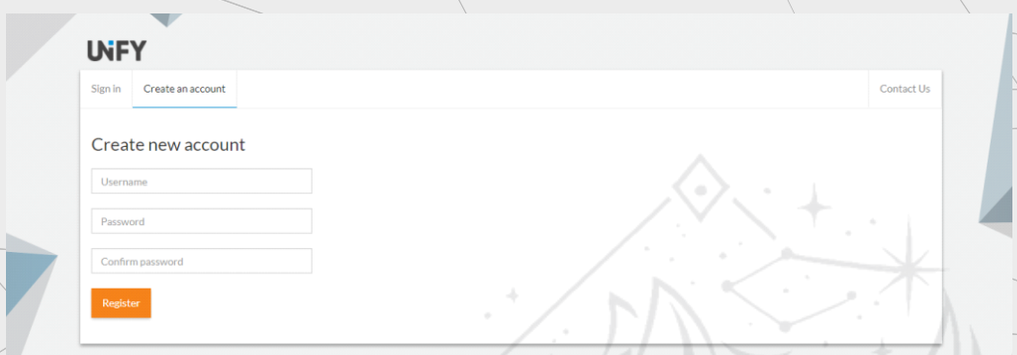


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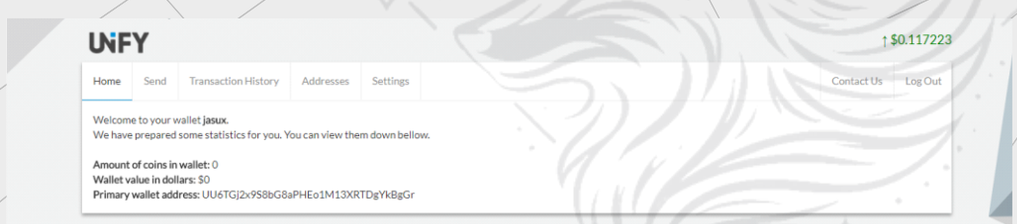
USING THE UNIFY WEB WALLET

If you don't like to manage your own wallet, the web wallet is a good and safe option for you. Make sure you always use the correct Unify URL https://www.unifywallet.com and make sure the connection is HTTPS!!! In this part we will show you how to make an account on the web wallet, and point you to some security points. We will not show you the whole overview because it's almost the same as the regular Windows/Mac/Linux wallet.
Make an account with 2FA authentication

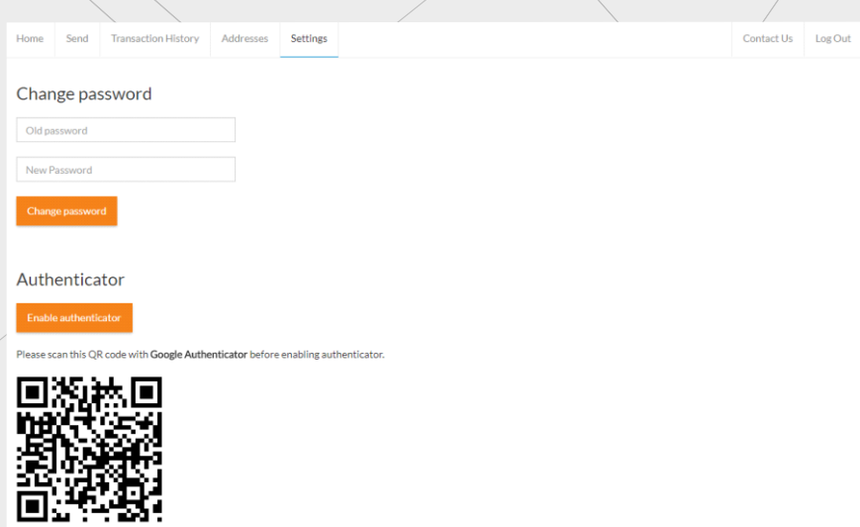
Before we can start we need to make an account on the web wallet. We can do this here. Fill in a username/password. Make sure you remember your username and password because there is no email verification. **If you forget your username/password there is no way to recover your account!!!**



This is what you will see once you have made your account. (Here you can check your username.) You can find your amount of coins and your primary wallet address on the "home" page.



When we move to the tab "Settings" tab, we can find the Two Factor Authenticator (2FA). This requires the account to be verified through Google Authenticator. To use the 2FA download the IOS or ANDROID app. When you open the app click on the + button, and click "scan a barcode". The camera will open. Now you need to scan the picture you see. Now you have your 30 second security code. Make sure you save the QR-code. If you lose your phone you won't be able to log in to your account anymore. You can save the QR-code by right clicking on the image and safe it. I would suggest to save this picture on a USB flash drive and put it in safe, or put it on an Encrypted USB flash drive.



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STAKING WITH THE UNIFY WALLET

How to start staking

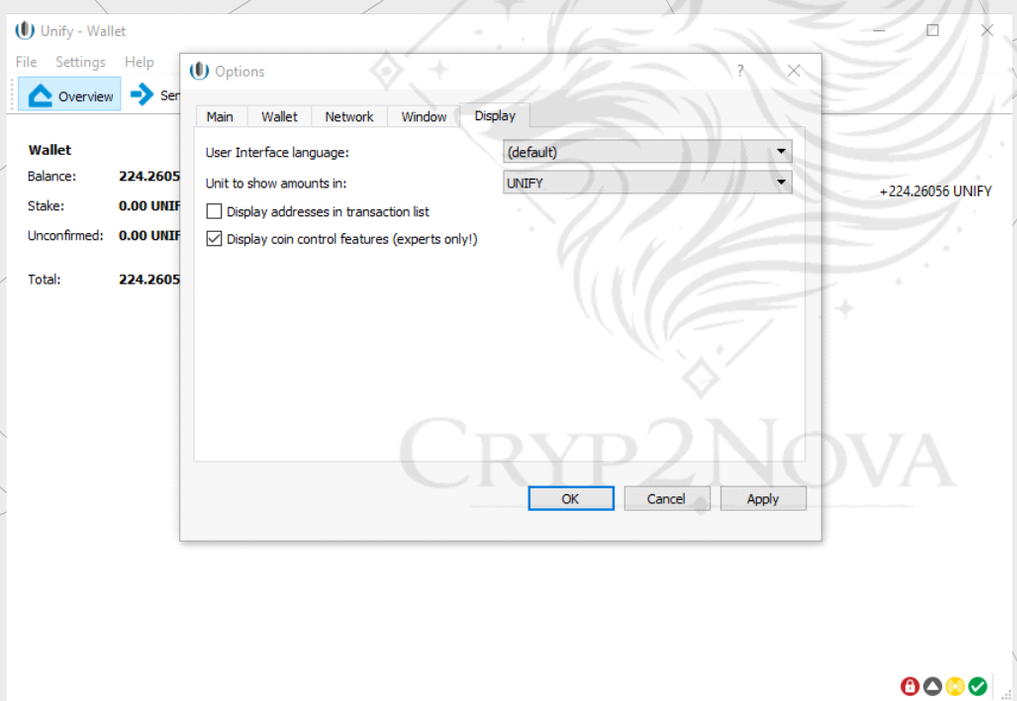
To start staking your first Unify coins you need to unlock your wallet for staking. You can do this by clicking on "Settings>Unlock wallet". Enter your password, but make sure the box is checked in the left corner "for staking only". This requires you to still enter a password to make a transaction.

Rewards

Rewards from staking are the reason many people stake their coins. Roughly 1000 coins will give you 1 coin every 3 days. That's about 10% every year!!! Remember that your wallet has to be running on your computer, and connected to the internet to stake. Without a consistent internet connection, it will be difficult to stake. It takes some time before you will get your first stakes. The amount of rewards you receive depends on your network weight. The network weight is calculated by the amount of Unify coins you have, and the amount of time they have been in your wallet. However when you hit a block (you stake your coins), your network weight of that input will be reset.

Inputs

If you are holding 2000+ coins it may be smart to create more inputs. This means you split your total coins in separated inputs. This will result in a higher network weight, and a higher network weight means more stakes. To do this click on "settings > options".
Once you are in the settings go to "Display". Check the last option "Display coin control features (experts only!)". Once this is done click OK. Now we are ready to make some inputs!

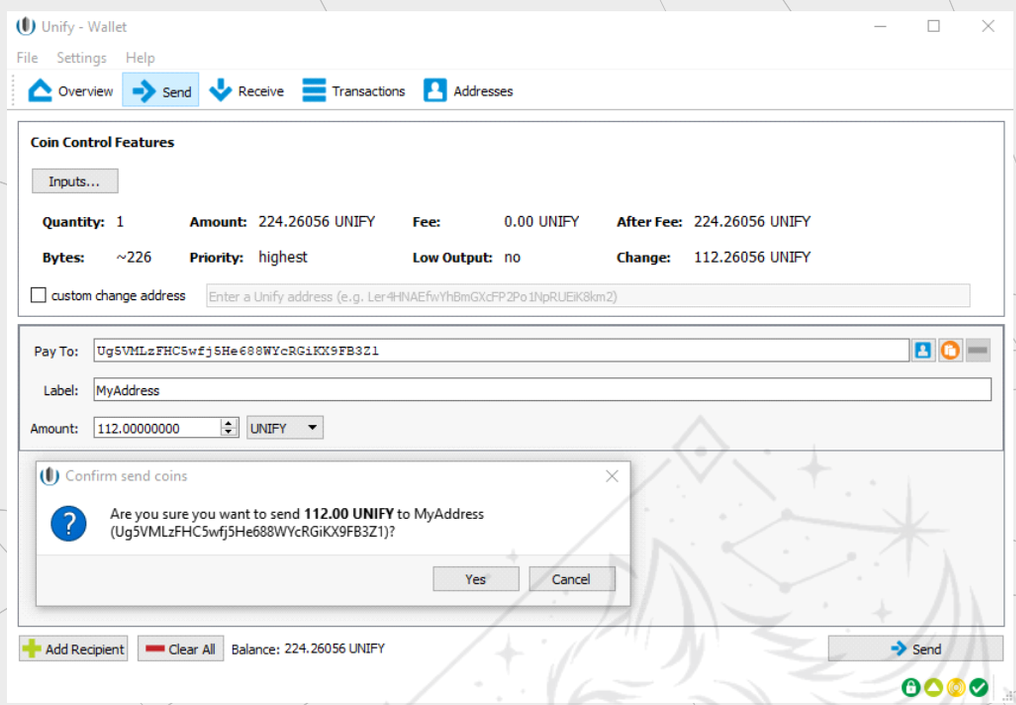


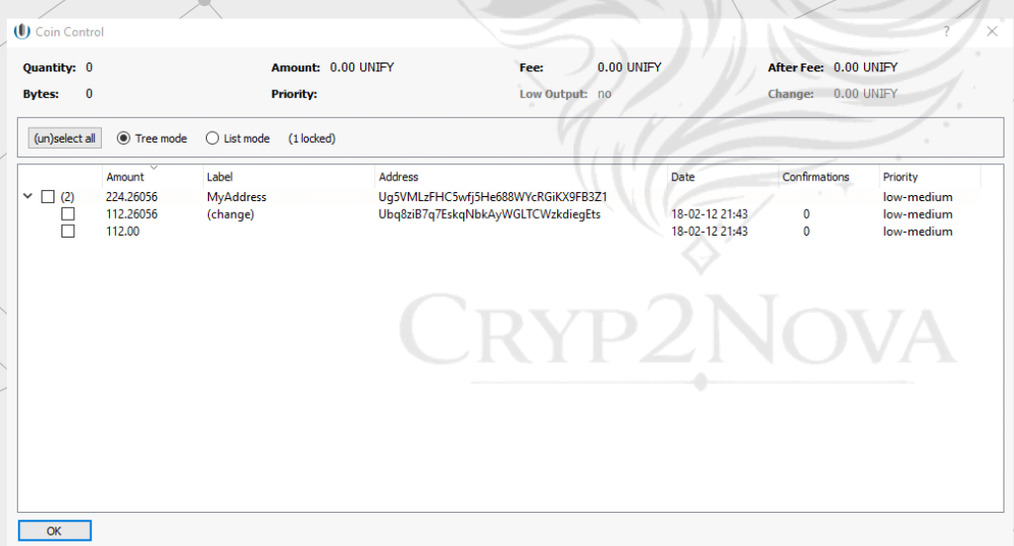
Next we go to the "Send" tab. This will look different than before. You will see something like "Coin Control Features". Here we see some extra information such as the fee, quantity, amount, and more importantly, the priority!

Ok, let's make our first input. Click on the "Inputs..." button. Once you see something like the following click on your biggest input and click on "OK". In this example I will halve the input, although an input around 1K gives you the best results for staking.

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So in this example I send 112 coins (half of the whole input) to my own address. Once this is done I will have two separate inputs as you can see below. This means a higher network weight. Remember that 1k inputs are the best size. Lower or higher inputs will result in a lower network weight.



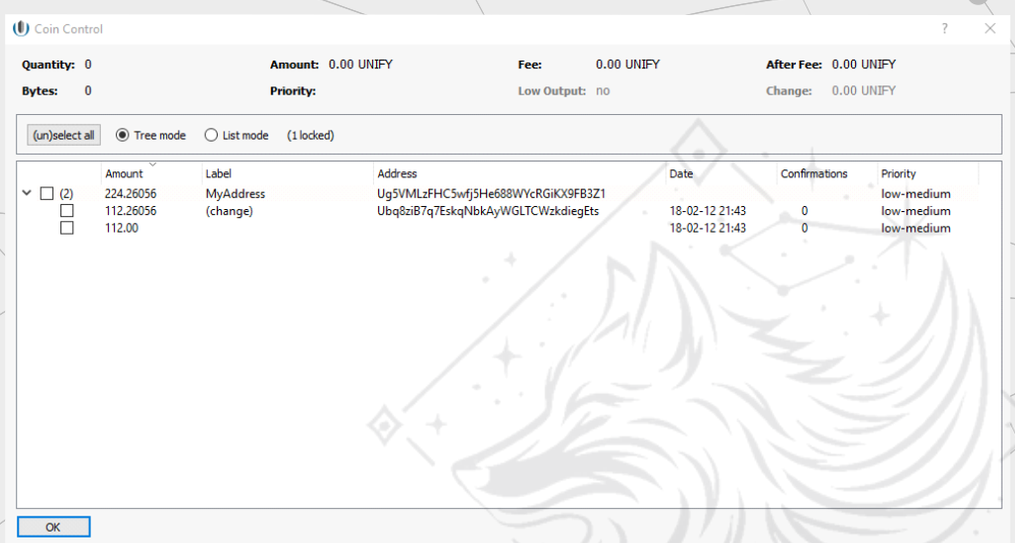


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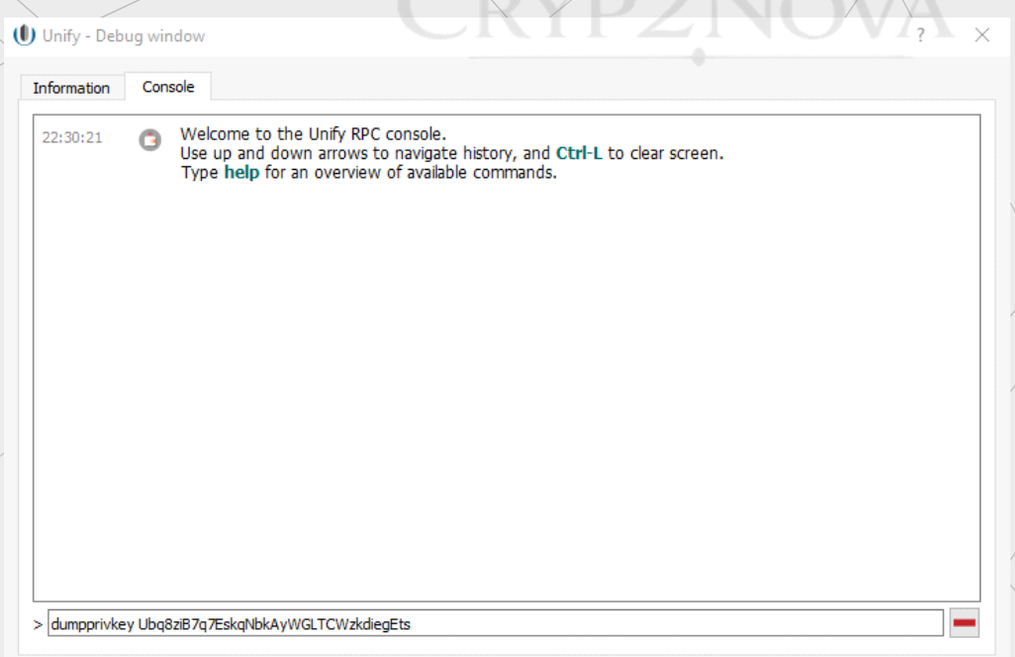
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RECOVERING LOST COINS

I hope for you that you don't need to use this part of the tutorial. But if you lost some coins after making inputs don't worry, we will get your coins back. We are going to recover your private keys. If someone else gets these keys they will be able to steal your coins even if your wallet is decrypted. So if you need help with this I personally would only trust the real unify team Members. You could find those guys at the telegram group: @SBDomains @cykrin @theincrediblevictor @ChickenBacon or @jasux. But if you follow these steps you probably won't need them. So back to the lesson. You lost some coins after making inputs. First open notepad or any other text editor. Here we need to paste all the addresses you own. You can find those addresses in the "Inputs" tab. As you can see, I have two different addresses: Ubq8ziB7q7EskqNbkAyWGLTCWzkdiegEts AND Ug5VMLzFHC5wfj5He688WYcRGiKX9FB3Z1. You may have more addresses but that doesn't matter. Just make sure you copy all.



In the next step you need to unlock your wallet. Now it's important that you uncheck "for staking only" otherwise you will not be able to dump your private key. Next we can start recovering your private keys. For this we need the built-in console in the Unify wallet. Click on "Help>Debug window" and select console. Once we are in the console we are going to dump the private key(s). We can do this by typing dumpprivkey (youraddress here) in my case it would be something like dumpprivkey Ubq8ziB7q7EskqNbkAyWGLTCWzkdiegEts. Once you hit enter your private key will show up in the console. Save these keys by copying and pasting thein any text editor.



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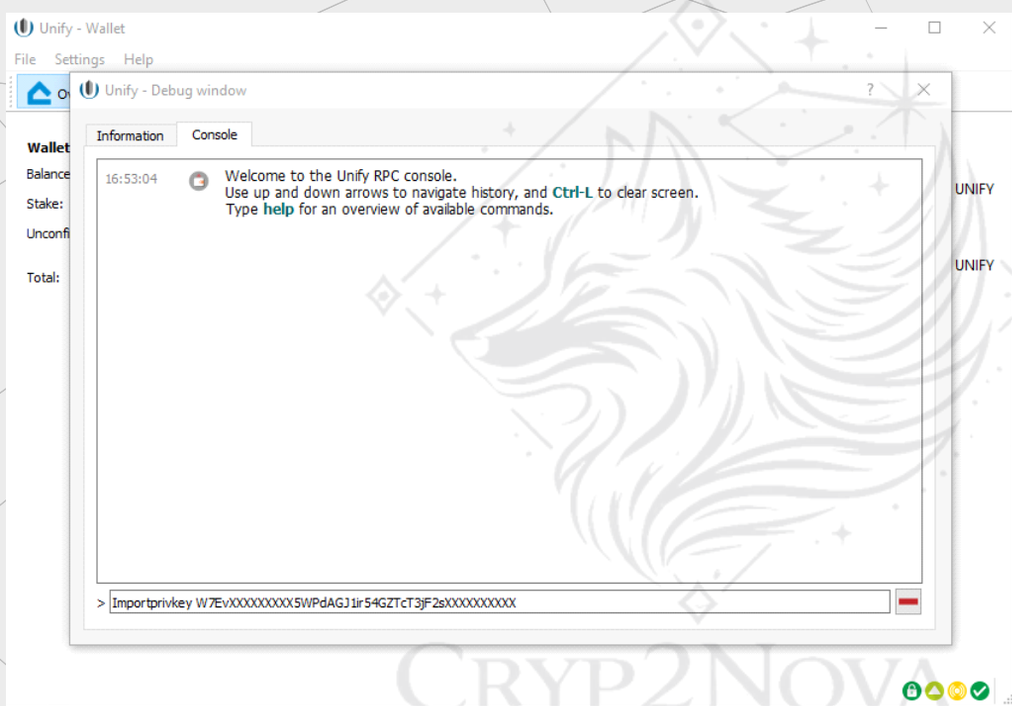
Once you copy all of your private keys to your text file we need to make one last backup just in case anything was done incorrectly. Once you made this backup close the wallet. Next we need to remove the everything inside the UnifyV2 folder.

Windows users can find this directory by clicking the "windows key + r" and type "%AppData%" in the pop up box. Here you find the unifyV2 folder.

MAC users can find this directory by clicking shift + ⌘ (command) + G which will GO to a folder, then paste in this location:
~/Library/Application Support/UnifyV2

For Ubuntu/pi users. Just type "cd .unifyV2" and remove the files.

Once this is done restart your wallet. You will see that you need to resync the whole block chain. After that's done go back to your console. Here type importprivkey (youraddress here) in my example it looks like:
"Importprivkey W7EvXXXXXXXXX5WPdAGJ1ir54GZTcT3jF2sXXXXXXXXXX"
Do this for all your private keys and your coins should be back.



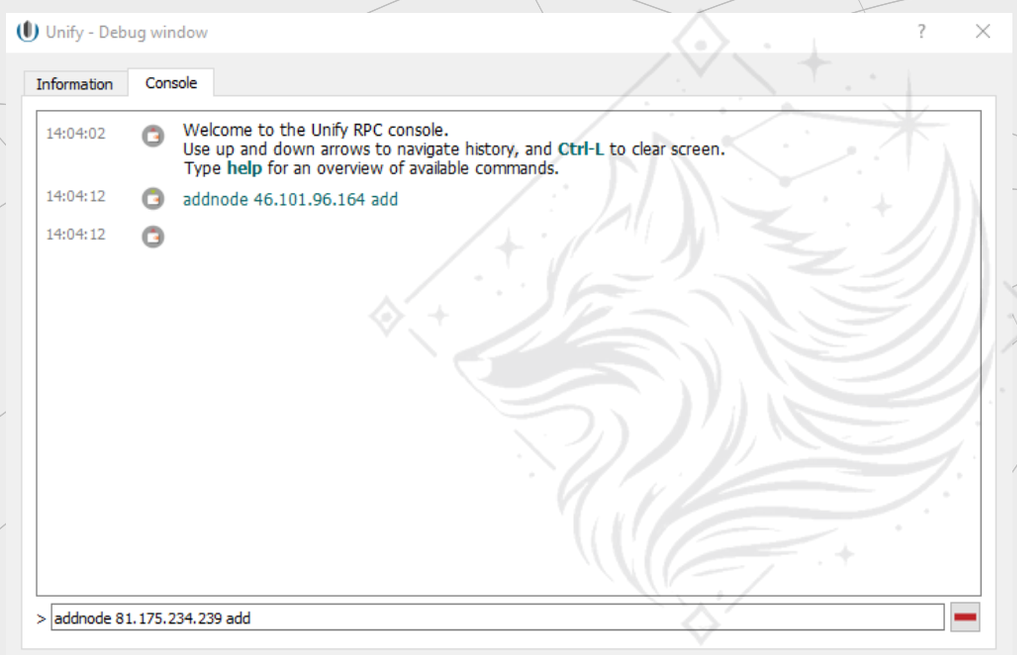
Remember you have a new wallet.dat now. This means you need to encrypt your wallet again, and you will have a new Primary address!

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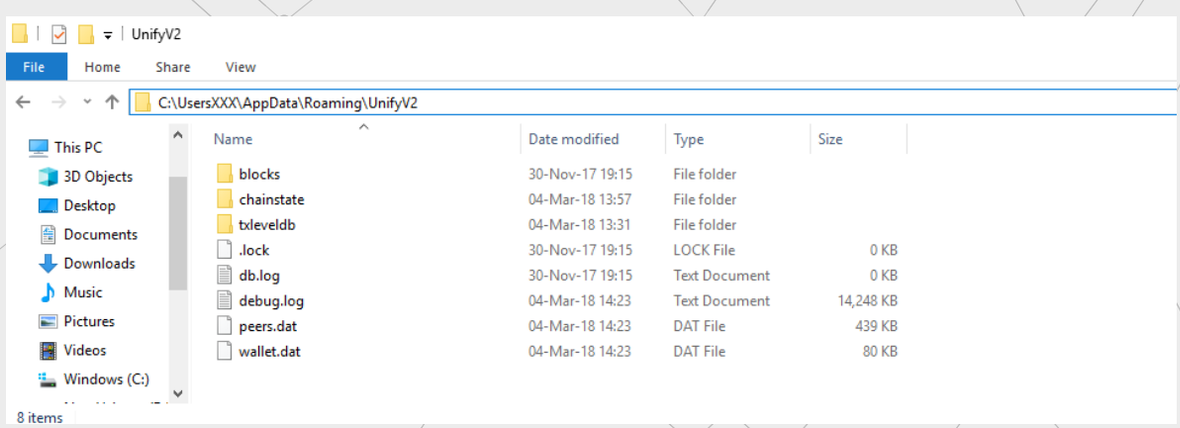
WALLET NOT SYNCING

A well know problem of the wallet is that it isn't syncing because it can't get any connections. To fix this problem we need to add some fresh nodes. Go to console (see previous step). And here we can add the fresh nodes. We can do this by typing: addnode XXX.XXX.XXX.XXX add. After you add some nodes give it a few minutes, once you have some connections the wallet will start syncing.

Here is a list with some fresh nodes
Addnode 88.152.91.251 add
addnode 37.59.115.219 add
addnode 80.209.224.232 add
addnode 185.165.58.96 add
addnode 51.174.223.105 add
addnode 98.166.84.64 add
addnode 46.101.96.164 add



As setting up more connections don't work and the wallet is still not syncing we need to use another way to let the wallet sync (this method can take some time). We are going to remove the everything in the UNIFYV2 folder except the wallet.dat. So first move to the UnifyV2 folder. (page 24 shows you how to find the unifyv2 folder) Once you there remove all the files except the wallet.dat. After you removed those files restart the wallet and your wallet should sync. (if you coins aren't there immediately don't worry. They will show up in the syncing process.)



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