



[1] Important to note that we're talking about Trezor's Web Wallet and not the hardware wallet.

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[2] Important to note that we're talking about Ledger Live, not the Ledger hardware wallets.

[3] AbCore is an open-source project which wraps Bitcoin Core on Android.

[4] Beware of the iOS version, there hasn't been a release on Github since march 2015 and a commit since January 2017.

[5] Beware of the iOS version, there hasn't been a release on Github since march 2015 and a commit since January 2017.

[6] <https://github.com/bitcoin/bitcoin>

[7] <https://github.com/btcpayserver/btcpayserver>

[8] <https://github.com/spesmilo/electrum>

[9] [https://github.com/Blockstream/green\\_ios](https://github.com/Blockstream/green_ios)

[https://github.com/Blockstream/green\\_android](https://github.com/Blockstream/green_android)

[10] <https://github.com/zkSNACKs/WalletWasabi>

[11] <https://github.com/BlueWallet/BlueWallet>

[12] <https://github.com/Samourai-Wallet/samourai-wallet-android>

[13] <https://github.com/bitcoin-wallet/bitcoin-wallet>

[14] Keymaster isn't open-source at all.

[15] <https://github.com/mycelium-com/wallet-android>

<https://github.com/mycelium-com/wallet-ios>

[16] <https://github.com/trezor/trezor-wallet>

[17] <https://github.com/bisq-network/bisq>

[18] <https://github.com/Casa>

[19] <https://github.com/hodlwallet>

[20] <https://github.com/breadwallet>

[21] <https://github.com/bither>

[22] <https://github.com/coinninjadev>

[23] <https://github.com/goatpig/BitcoinArmory>

[24] <https://github.com/EdgeApp>

[25] <https://github.com/CoinSpace/CoinSpace>

[26] <https://github.com/LedgerHQ>

[27] All the cryptography is open source but the Application isn't OSS.

<https://github.com/KZen-networks>

This is their perspective on the matter : <https://zengo.com/zengo-and-open-source/>

[28] <https://github.com/blockchain>

[29] <https://github.com/bitpay/copay>

[30] <https://github.com/bitpay/copay>

[31] App is closed-source so can't know for sure.

[32] App is closed-source so can't know for sure.

[33] App is closed-source so can't know for sure.

[34] App is closed-source so can't know for sure.

[35] There are fees associated to the CoinJoin mixing service.

[36] There are fees associated to the CoinJoin mixing service and to the Ricochet service.

[37] You got to subscribe to Casa's plans, lowest is 10\$/month.

[38] You have to buy the Casa Node 2 or to build the software from source.

[39] For less than 1 million of transaction volume per month, the fee is .25% per withdrawal.

[40] Electrum uses the Stratum Protocol and is considered an SPV Wallet but it requires an Electrum server infrastructure, which is different from other SPV wallets.

[41] Neutrino type SPV.

[42] BlueWallet connects to an Electrum Server.

[43] There are many implementations of an Electrum Server :

<https://github.com/romanz/electrs>

<https://github.com/kyuupichan/electrumx>

<https://github.com/chris-belcher/electrum-personal-server>

[44] [https://github.com/Blockstream/gdk\\_rpc](https://github.com/Blockstream/gdk_rpc)

[45] Serves as backend for CoinJoin mixing services and also to feed the block filters that will later be used to pull blocks on the P2P layer.

[46] <https://github.com/Samourai-Wallet/samourai-dojo>

[47] Edge connects to an Electrum Server.

[48] CoiNomi connects to an Electrum Server.

[49] <https://github.com/btcpayserver/btcpayserver>

[50] <https://github.com/zkSNACKs/WalletWasabi/tree/master/WalletWasabi.Backend>

[51] Backend is <https://github.com/trezor/blockbook>

It requires 10GB of RAM.

[52] <https://github.com/Casa/Casa-Node-API>

[53] <https://github.com/bitpay/bitcore>

[54] By running an Electrum Server that connects to a Bitcoin Node through the RPC interface.

[55] SPV mode has to be turned on.

[56] Through the P2P interface, a Neutrino wallet can connect to a Bitcoin Node.

This requires accepting incoming connections on the Bitcoin Node.

[57] By running an Electrum Server that connects to a Bitcoin Node through the RPC interface.

[58] By spinning his own Dojo instance that contains a Bitcoin Core node.

[59] Through the P2P interface, an SPV wallet can connect to a Bitcoin Node.

This requires accepting incoming connections on the Bitcoin Node.

[60] If you're running a Bitcoin Node on the Local host, Bisq will detect and connect to it. Else, through the P2P interface, an SPV wallet can connect to a Bitcoin Node.

This requires accepting incoming connections on the Bitcoin Node.

[61] Through the P2P interface, an SPV wallet can connect to a Bitcoin Node.

This requires accepting incoming connections on the Bitcoin Node.

[62] Through the P2P interface, an SPV wallet can connect to a Bitcoin Node.

This requires accepting incoming connections on the Bitcoin Node.

[63] Through the P2P interface, an SPV wallet can connect to a Bitcoin Node.

This requires accepting incoming connections on the Bitcoin Node.

[64] Through the P2P interface, an SPV wallet can connect to a Bitcoin Node.

This requires accepting incoming connections on the Bitcoin Node.

[65] By running an Electrum Server that connects to a Bitcoin Node through the RPC interface.

[66] By running an Electrum Server that connects to a Bitcoin Node through the RPC interface.

[67] On the Bitcoin and Lightning Networks, and Tor for the application.

[68] Wasabi is wrapped with a Tor instance.

[69] Samurai is wrapped with a Tor instance.

[70] Mycelium is wrapped with a Tor instance.

[71] By default

[72] On the Bitcoin and Lightning Networks, and Tor for the application.

[73] wallet.dat

[74] 12 words

[75] 12 words

[76] 24 words

[77] 12 words

[78] 24 words

[79] 12 words

[80] The hardware wallets aren't backed up and the key on the mobile device is backed up with an encrypted file on on the user's Google Drive/iCloud and the decryption key goes to Casa's servers but is generated on the mobile device.

[81] 12 words

[82] 24 words

[83] 12 words

[84] 24 words

[85] 12 words

[86] 24 words

[87] 12 words

[88] 12 words

[89] 12 words

[90] 12 words

[91] Armory offers a paper backup but their protocol isn't compatible with other wallets. This paper backup can be shattered in many pieces.

x

[92] 12 words

[93] 24 words

[94] 24 words

[95] Bitgo is a 2 of 3 wallet, where two keys are backed up. One is a key backed up on the client side and encrypted with a password. The other backup key can either be held by a third-party, it can be generated on the browser at moment of creating the wallet, or it can be an external to the application key, the user only shares the master public key.

[96] The backup is an encrypted file on their servers that can only be retrieved by providing a scan of your face and matching your FACE MAP, and the decryption key is on the user's iCloud/ Google Drive.  
<https://zengo.com/security/>

Your face map is stored on their servers, not a picture of your face.

Details on the matter by them : <https://zengo.com/biometrics-in-zengo-wallet/>

[97] 13 words backup phrase that is incompatible with all other wallets.

[98] 12 words

[99] 12 words

[100] 12 words

[101] You have to pass through this step but there's no verification.

[102] You have to pass through this step but there's no verification.

[103] The mobile key backup is forced.

[104] BIP 39 Passphrase

[105] BIP 39 Passphrase

[106] BIP 39 Passphrase

[107] BIP 39 Passphrase

[108] BIP 39 Passphrase

[109] You can input entropy with Xrandom on the application.

[110] Move your mouse around for entropy.

[111] BIP 39 Passphrase

[112] Through HWI, Bitcoin Core can be used with Hardware Wallets.

Supports all major hardware wallets.

[113] All major hardware wallets.

[114] Supports all major hardware wallets.

[115] Ledger X, Ledger S, Trezor T and Trezor One.

<https://docs.blockstream.com/green/hww.html#supported-hardware-wallets>

[116] Supports all major hardware wallets.

[117] Spectre DIY by CryptoAdvance

[118] Trezor one, Ledger S and ColdCard.

[119] Trezor One and T, Ledger X and S.

[120] All Trezor models.

[121] Trezor one and Trezor T.

[122] All Ledger models.

[123] Ledger X and S.

[124] You can't create multisignature schemes or spend from them but you can watch one with many signers, probably up to 15.

[125] It's a 2 of 2 by default but it can be extended to 3 keys total if a hardware wallet is used.



Blockstream as cosigner can also be removed if a hardware wallet is used.

[126] Casa offers 2 of 3 and 3 of 5 as multi-signature schemes. In both cases, Casa holds one key but only uses it if the user requests on an emergency case.

On both setups, the mobile device of the user holds one key and the rest of the keys are hardware wallets.

[127] Can't be used but can be imported

[128] supports up to 7 of 7

[129] it's a 2 of 3, where you hold one key, BitGo holds one key, and there's an emergency key that either you or a third-party holds.

[130] ECDSA Threshold Signatures

[131] it uses a 2 of 2 multi-signature when trading an asset other than Bitcoin.

[132] It's a 2 of 2 multisignature scheme by default.

[133] You can create multi-signature contracts with up to 7 signers.

[134] TrustedCoin provides the service for the cosigning and 2FA.

[135] For their 2FA feature, Blockstream acts as a cosigner in a 2 of 2 multi signature scheme.

[136] Casa holds a key and only acts as a cosigner in emergency situations.

[137] Bitgo is a cosigner on all wallets.

[138] Abra is a cosigner on the trades of other assets.

[139] By default

[140] You can 2FA with Google Authenticator, Web Authn, Fido U2F , Yubikey.

[141] Child Pays for Parent.

[142] <https://paynym.is/> follow the BIP47 protocol, they are stealth addresses.

[143] OP\_RETURN is feature that allows you to write any message on the Bitcoin Blockchain but without creating a UTXO.

[144] You can generate vanity addresses on the application.

[145] Closed-source so can't know.

[146] add wrapped p2sh, regular p2sh, legacy

[147] Through the RPC interface.

[148] Whirlpool is now fully available on Mobile with the latest release, 0.99.90.

The APK is downloadable here : <https://code.samourai.io/wallet/samourai-wallet/tree/master/apk>

[149] PSBT Transactions

[150] Some say that this would be yes, since Blockchain has an API that allows you to push the transaction. This analysis is about the GUI Wallet, not the API.

[151] Green doesn't allow you to have many different wallets at the same time, but it allows you to have many accounts in the same wallet.

[152] April 5th release coming with Multi-Wallet support.

[153] You can have many accounts on the Wallet.

[154] You can have many accounts on the Wallet.

[155] You can have many wallets inside the same account.

[156] You can have many wallets inside the same account.

[157] You need to subscribe to Casa's plans to access the application, with your email.

[158] You can give it.

[159] You have to sign up for their services with your email.

[160] You have to sign to their services with your email.

[161] There are integrations to add many altcoins but they are not activated on the backend by default.

[162] Green Wallet supports L-BTC and Liquid Network assets.

[163] There's also Ethereum.

[164] they have basically all altcoins.

[165] Bitcoin is the only cryptocurrency you can hold on the wallet but you can trade altcoins.

[166] Many altcoins

[167] They have many altcoins.

[168] They have many altcoins.

[169] many altcoins

[170] They have many altcoins.

[171] they have basically all altcoins.

[172] they have basically all altcoins.

[173] they have many altcoins.

[174] Many altcoins

[175] You can trade altcoins and stocks but can only withdraw Bitcoin.

[176] Many altcoins

[177] Bitcoin Cash too

[178] There are a few altcoins.

[179] There are a few altcoins

[180] there are many altcoins

[181] Mattermost, Github, Telegram

[182] Github, Telegram Chat, Email, Twitter

[183] Email for the lowest tier, 24/7 phone support for higher tiers.

[184] Forum, Github, IRC

[185] Twitter, Slack, Email & Web Tickets

[186] There are Terms of Use and a Privacy Policy.

[187] There are terms & conditions.

[188] Privacy Policy and Terms of Service.

[189] Privacy Policy and Terms of Service.

[190] Terms of Service

[191] Terms of Use

[192] Terms of Use and Privacy Policy

[193] Privacy Policy

[194] Privacy Policy.

[195] Privacy Policy and Terms of Service.

[196] Privacy Policy and Terms of Service.

[197] Privacy Policy and Terms of Service.

[198] Privacy Policy and Terms of Service.

[199] Privacy Policy and Terms of Service.

[200] Privacy Policy and Terms of Service.

[201] Privacy Policy and Terms of Service.

[202] User Agreement & Privacy Policy

[203] Privacy Policy and Terms of Service.

[204] Terms of use

[205] Privacy Policy and Terms of Service.

[206] terms of service

[207] Terms of Service & Privacy Policy

[208] Terms of Service & Privacy Policy

[209] ChangeNow & HodlHodl integration.

[210] buy with EUR SEPA at safello.com  
with Credit Card with simplex.com  
or P2P on the Local Trader Feature

[211] Bisq is a decentralized P2P platform where users can trade Bitcoin with fiat currencies using any form of payment.

[212] By buying a Rise Wallet Voucher / Gift Card at a convenience store, you can then claim the amount in Bitcoin on the wallet.

[213] in Hong Kong only.

[214] Buy with CAD on Coinberry.com, with DKK, EUR or GBP at coinify.com through Credit Card or Bank Transfer or with USD ACH with Wyre or Credit Card.

[215] buy Bitcoin with Wyre & Google Pay

[216] buy Bitcoin with Wyre & Google Pay

[217] Credit Card through MoonPay and Simplex

[218] Moonpay with Credit Card

[219] Buy with Credit Card at Simplex

[220] Buy Bitcoin with Simplex and Credit Card. Sell Bitcoin with Simplex with a EU-issued Visa Debit Card

[221] Moonpay integration

[222] Buy Bitcoin with Credit Card through Simplex.

[223] You can deposit fiat and convert to other fiat currencies or buy Bitcoin.

[224] buy with Simplex and Credit Card

[225] by Blockchain

[226] buy Bitcoin with Simplex, Coinbase

[227] by Coinbase

[228] Bitrefill Integration

[229] Bitrefill Gift Cards

[230] Buy Gift Cards with Bidali

[231] Use Bitpay Visa Card or buy Gift Cards

[232] The wallet is only for Bitcoin and Ethereum but you can sell any altcoin for Bitcoin.

[233] Following integrations to exchange altcoins : Changelly, ChangeNOW, CoinSwitch, ChangeHero, Fox.Exchange, and MorphToken.

[234] Users can trade Bitcoin and Altcoins in a P2P manner as well.

[235] their own integration

[236] Shapeshift and Changelly

[237] Changelly to exchange altcoins and Bitcoin

[238] You can swap many altcoins to Bitcoin.

[239] You can trade altcoins but not withdraw them.

[240] Shapeshift powered

[241] Yes by Blockchain

[242] Trade altcoins on Shapeshift

[243] by Coinbase

[244] 2 themes and CSS injection

[245] Dark Mode support.

[246] Dark mode available

[247] There are colors, textures & skins.

[248] The background image can be changed.

[249] There are 4 themes

[250] You can import xpubs

[251] Import private and public keys

[252] You can import addresses and private keys.

[253] You can import private keys, multi signature private keys

[254] You can import private keys

[255] Import private key, BIP38 private key,

[256] Import private key or addresses

[257] Import private key or addresses

[258] Import Private keys

[259] you can import wif private keys

[260] Import WIF, bip 38 and mini private keys.

[261] You can import private keys.

[262] You can import private keys

[263] You can import WIF private keys or BIP44 seed phrases.

[264] You can import addresses or private keys

[265] <https://bitcoincore.org/en/contact/>

[266] <https://github.com/btcpayserver/btcpayserver/blob/master/SECURITY.md>

[267] <https://github.com/spesmilo/electrum/blob/master/SECURITY.md>

[268] [info@greenaddress.it](mailto:info@greenaddress.it)

[269] <https://github.com/zkSNACKs/WalletWasabi/blob/master/SECURITY.md>

[270] [bluwallet@bluwallet.io](mailto:bluwallet@bluwallet.io)

[271] <https://samouraiwallet.com/support>

[272] <https://keys.casa/responsible-disclosure-policy/>

[273] <https://trezor.io/security/>

[274] <https://keys.casa/responsible-disclosure-policy/>

[275] <https://brd.com/blog/bug-bounty-program>

[276] <https://donjon.ledger.com/bounty/>

[277] <https://support.xapo.com/how-do-i-report-a-security-vulnerability-to-xapo/>

[278] <https://hackerone.com/blockchain>

[279] <https://support.bitpay.com/hc/en-us/articles/204229369-Does-BitPay-have-a-bug-bounty-program->

[280] <https://hackerone.com/coinbase>

[281] <https://bitcoincore.org/en/2019/11/08/CVE-2017-18350/>

[282] <https://blog.btcpayserver.org/xss-vulnerability-disclosure-doyensec/>

[283] <https://thenextweb.com/hardfork/2019/04/16/behind-the-scenes-electrum-hackers-steal-4m-with-bitcoin-phishing-attacks/>

[284] <https://github.com/zkSNACKs/WalletWasabi/releases/tag/v1.1.10>

[285] <https://bitcoinmagazine.com/articles/critical-vulnerability-found-in-android-wallets-1376273924>

[286] <https://blog.trezor.io/details-of-the-multisig-change-address-issue-and-its-mitigation-6370ad73ed2a>

[287] <https://blog.keys.casa/cve-201<9-12999-lightning-network-security-vulnerability/>

[288] <https://btcarmory.com/fragmented-backup-vuln/>



[289]

<https://hackerone.com/coinspace/hackitivity>

[290] <https://cryptonews.com/news/reports-coinomi-wallet-critical-vulnerability-discovered-3440.htm>

[291] <https://donjon.ledger.com/lb/006/>

[292] <https://techgage.com/article/a-problem-with-jaxx-cryptocurrency-wallet-security/>

[293] <https://hackerone.com/blockchain>

[294] <https://bitpay.com/blog/copay-npm-security-update/>

[295] <https://www.cryptoglobe.com/latest/2019/02/coinbase-pays-hacker-30000-for-discovering-a-critical-vulnerability/>

[296] On Jaxx Liberty, this is patched.