

This software wallet analysis was prepared by Veriphi for the Bitcoin community. This is a software wallet analysis, not a hardware wallet analysis. We recommend hardware wallets to everyone.

We have analyzed 56 Features for each wallet, the inclusion criteria is:  
 1) Mainly a Bitcoin Wallet  
 2) Enough Usage (Over 1000 Downloads)  
 If you need help choosing your wallet, contact us at [contact@veriphi.io](mailto:contact@veriphi.io)



Wallets	Bitcoin Core	BTCPay	Electrum	Green	Wasabi	Blue Wallet	Samsurai	Bitcoin Wallet	Keymaster	Mycelium	rezor Wallet 1	Biso Wallet	Casa Node 2	Rise Wallet	BRD	Bither	Bitpie	Dropbit	Armory	Edge	CoinSpace	Hodl	Coinomi	Exodus	Ledger Live 12	BitGo	Zengo	Abraxa	Jaxx	Xapo	BTCC.com	Blockchain	BitPay/Conay	Coinbase		
<b>Functionality</b>	Totally	Totally	Totally	Totally	Totally	Totally	Totally	Totally	Yes	Yes	Yes	Yes	Yes	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	
<b>Recommended</b>	Best Security & Features	Best Security & Features	Best Security & Features	Mobile UX & Security	Desktop UX & Best Privacy	Mobile UX & Features	Mobile UX & Best Privacy	Mobile UX	Secure but Closed-Source	Yes	Can't Connect Node	Yes	Good Privacy	Node	Closed Source Can't Connect Node	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	Not Really	
<b>Why?</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
<b>Web App</b>	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
<b>Desktop App</b>	Yes	No	Yes	Soon	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
<b>Android</b>	No [3]	No	Yes	No	No	Yes	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
<b>iOS</b>	No	No	No	Yes	No	No	No	No	No	Yes	Yes [4]	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
<b>Fully Open-Source</b>	Yes [6]	Yes [7]	Yes [8]	Yes [9]	Yes [10]	Yes [11]	Yes [12]	Yes [13]	No [14]	Yes [15]	Yes [16]	Yes [17]	Yes [18]	No	Yes [19]	Yes [20]	No	Partial [21]	Yes [22]	Yes [23]	Yes [24]	Yes [25]	Yes [26]	No	Yes [26]	No	Partially [27]	No	No	No	No	No	No	No		
<b>Software Language</b>	C++	C# / HTML + JS	Python	Java/Swift	C#	ReactJS	Java	Java	? [31]	Java / Objective C	JavaScript	Java	VueJS	ReactJS	Java/Swift	Java	?	Java/Swift	Python	React JS	JavaScript	Java / Swift	Java	NodeJS	JavaScript	JavaScript	React Native	?	[32]	[33]	[34]	JavaScript	ReactJS, Kotlin/Swift	TypeScript/JS	JavaScript	
<b>Testnet</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
<b>Free</b>	Yes	Yes	Yes	Yes	Yes [35]	Yes	Yes [36]	Yes	No [37]	Yes	Yes	Yes	Yes	Kind off [38]	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Connect?</b>	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
<b>Wallet is API, SPV or a Node?</b>	Node	API	SPV [40]	API & SPV	SPV [41]	SPV [42]	SPV	SPV	API	API	API	SPV	API	API	SPV	SPV	API	API	Node	API / SPV	API	SPV	API	SPV	API	API	API	API	API	API	API	API	API	API	API	
<b>Connects to a Backend Server?</b>	No	Yes	Yes [43]	Yes [44]	Yes [45]	Yes	Yes [46]	No	No	Yes	Yes	No	Yes	Yes	No	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
<b>Is the Backend Open-Source?</b>	-	Yes [49]	Yes	Yes [50]	Yes	Yes	Yes	-	No	No	Yes [51]	-	Yes [52]	No	-	-	No	-	-	-	Yes [47]	Yes	No	Yes [48]	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Can a user connect to his Node?</b>	-	Yes (Only option)	Yes [54]	Yes [55]	Yes [56]	Yes [57]	Yes [58]	Yes [59]	No	No	Yes	Yes [60]	Yes (Only option)	No	Yes [51]	No	No	No	No	No	Yes [62]	Yes [63]	Yes [64]	No	Yes [65]	Yes [66]	No	No	No	No	No	No	No	No	No	
<b>Is Backup Forced?</b>	Yes	Yes [67]	Yes	Yes	Yes (Default) [68]	No	Yes [69]	No	No	Yes [70]	No	Yes [71]	Yes [72]	No	Yes [71]	No	d	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
<b>How's the private key Backup done?</b>	File [73]	Mnemonic Phrase [74]	Mnemonic Phrase [75]	Mnemonic Phrase [76]	Mnemonic Phrase [77]	Mnemonic Phrase [78]	Mnemonic Phrase [79]	File	File [80]	Mnemonic Phrase [81]	Mnemonic Phrase [82]	Mnemonic Phrase [83]	Mnemonic Phrase [84]	Mnemonic Phrase [85]	Mnemonic Phrase [86]	Mnemonic Phrase [87]	Mnemonic Phrase [88]	Mnemonic Phrase [89]	Many [90]	Private Key	Mnemonic Phrase [91]	Mnemonic Phrase [92]	Mnemonic Phrase [93]	File	Mnemonic Phrase [94]	File [95]	Shards [96]	Backup Phrase [97]	Mnemonic Phrase [98]	File	Mnemonic Phrase [99]	Mnemonic Phrase [100]	File	Mnemonic Phrase [101]	File	
<b>User added entropy?</b>	No	Yes [104]	Yes [105]	Yes [106]	Yes [107]	Yes [108]	Yes [109]	No	No	No	Yes [108]	No	No	No	No	Yes [109]	No	No	No	Yes [110]	No	No	No	No	No	No	Yes [111]	No	No	No	No	No	No	No	No	
<b>Is there Hardware Wallet integration?</b>	Yes [112]	Yes	Yes [113]	Yes [114]	Yes [115]	Yes [116]	Yes [117]	No	No	Yes [118]	Yes [119]	Yes [120]	No	No	No	No	Yes (BITHD)	Yes [120]	No	No	No	No	No	No	Yes [121]	No	No	No	No	No	No	Yes [123]	No	No	No	
<b>Multi-Signature</b>	Yes	Yes [124]	Yes	Yes [125]	No	No	No	No	Yes [126]	No	No	No	No	No	No	No	Kind of [127]	No	Yes [128]	No	No	No	No	No	No	Yes [129]	Kind of [130]	Yes [131]	No	No	Yes [132]	No	Yes [133]	No	No	
<b>Can a Service Provider be a Cosigner?</b>	No	No	Yes [134]	No	No	No	No	Yes [135]	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes [137]	No	Yes [138]	No	No	Yes [139]	No	No	No	No	
<b>2FA</b>	No	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes [140]	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Can you lock the App?</b>	Password	Password	Password	Many Ways	Password	PIN	PIN	Many	Many	PIN	PIN	Password	Password	No	Many	Password	Many	PIN	No	PIN	PIN	PIN / Biometrics	Password	Yes	Many	Email	Many	PIN	Password	PIN	Email & PW	PIN	PIN	PIN	PIN	
<b>Other BTC Features</b>	Mining	No	No	No	CPFP [141]	Paynoms [142]	No	No	No	OP_RETURN [143]	No	No	No	No	Family Addresses [144]	OP_RETURN	No	ECDSA Calculator	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
<b>Is there Fee Selection?</b>	Yes	Full	Yes	Yes	Yes	Yes	Yes	Limited	Full	Full	Limited	Limited	Limited	Limited	Limited	Full	Limited	Full	Limited	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full	
<b>FiAT Denominations</b>	No	Many	Many	Many	Many	Many	Many	Many	USD	Many	Many	Many	USD	Many	Many	Many	USD	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	
<b>Exchange Rate API</b>	None	CoinGecko	Many	Many	Aggregate	CoinDesk	None	bitcoinaverage.com	?	Many	Changelly	Bitcoin Average	777	777	?	Many	777	No	?	?	?	Changelly	Many	Many	Bitgo	?	[145]	777	Coinbase	Own	Own	Own	Own	Own		
<b>Bitcoin Unit of Account</b>	Many	BTCC	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	Many	
<b>Bech32 addresses (bc1...)</b>	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	No	No	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
<b>Legacy Addresses (1)</b>	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
<b>P2SH Addresses (2) (Segwit nested or other)</b>	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
<b>Batch spending [146]</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
<b>RBF (Replace by Fee)</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
<b>PSBT (partially signed Bitcoin Transactions)</b>	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
<b>CoinJoin</b>	No	No	No	No	Yes (Forced)	No	Yes [147]	No	No	Yes	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
<b>Coin Control (UTXO Management)</b>	Yes	No	Yes	No	Yes (Forced)	No	Yes	No	Yes	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
<b>Can the user broadcast any TX?</b>	Yes	Yes [148]	Yes	No	Yes	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
<b>Message Signing / Verification of Signature?</b>	Yes	No	Yes	No	No	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
<b>Can there be many wallets at the same time?</b>	Yes	Yes	Yes	Kind Of [150]	No	Yes	No	No	No	No	Kind Of [151]	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
<b>Do you need to provide an email?</b>	No	Yes	No	No	No	No	No	No	Yes [155]	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
<b>Only Bitcoin?</b>	Yes	No [159]	Yes	No, Liquid [160]	Yes	Yes	Yes	Yes	Yes	No [161]	No [162]	Yes [163]	Yes	Yes	Yes	No [164]	No	Yes	Yes	Yes	No [166]	No [167]	Yes	No [168]	No [169]	No [170]	No [171]	No [172]	No [173]	No [174]	Yes	No [175]	No [176]	No [177]	No [178]	
<b>If Android, Play Store Downloads?</b>	100 000	100 000	50 000	50 000	10 000	50 000	1 000 000	1000	1 000 000	1000	1 000 000	1000	1 000 000	1000	1 000 000	1000	10 000	1000	100 000	100 000	10000	1 000 000	50 000	10000	1 000 000	50 000	1000	500 000	100 000	1 000 000	500 000	10 000 000	500 000	1 000 000	5 000 000	
<b>Support Level</b>	GitHub	Many [179]																																		

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

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

[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/breadwallet>

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

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

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

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

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

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

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

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

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

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

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

This requires accepting incoming connections on the Bitcoin Node.

[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] 12 words

[87] 12 words

[88] 24 words

[89] 12 words

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

x

[91] 12 words

[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 the decryption key is on the user's iCloud/ Google Drive.  
<https://zengo.com/security/>

[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] 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>

[148] PSBT Transactions

[149] 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.

[150] 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.

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

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

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

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

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

[156] You can give it.

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

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

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

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

[161] There's also Ethereum.

[162] they have basically all altcoins.

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

[164] They have many altcoins.

[165] Many altcoins

[166] They have many altcoins.

[167] many altcoins

[168] They have many altcoins.

[169] they have basically all altcoins.

[170] they have basically all altcoins.

[171] they have many altcoins.

[172] Many altcoins

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

[174] Many altcoins

[175] Bitcoin Cash too

[176] There are a few altcoins.

[177] There are a few altcoins

[178] there are many altcoins

[179] Mattermost, Github, Telegram

[180] Github, Telegram Chat, Email, Twitter

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

[182] Forum, Github, IRC

[183] Twitter, Slack, Email & Web Tickets

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

[185] There are terms & conditions.

[186] Privacy Policy and Terms of Service.

[187] Privacy Policy and Terms of Service.

[188] Terms of Service

[189] Terms of Use

[190] Privacy Policy.

[191] Terms of Use and Privacy Policy

[192] Privacy Policy and Terms of Service.

[193] Privacy Policy and Terms of Service.

[194] Privacy Policy and Terms of Service.

[195] Privacy Policy

[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] User Agreement & Privacy Policy

[201] Privacy Policy and Terms of Service.

[202] Terms of use

[203] Privacy Policy and Terms of Service.

[204] terms of service

[205] Terms of Service & Privacy Policy

[206] Terms of Service & Privacy Policy

[207] ChangeNow & HodlHodl integration.

[208] buy with EUR SEPA at safello.com  
with Credit Card with simplex.com

or P2P on the Local Trader Feature

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

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

[211] 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.

[212] in Hong Kong only.

[213] buy Bitcoin with Wyre & Google Pay

[214] buy Bitcoin with Wyre & Google Pay

[215] Credit Card through MoonPay and Simplex

[216] Moonpay with Credit Card

[217] Buy with Credit Card at Simplex

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

[219] Moonpay integration

[220] Buy Bitcoin with Credit Card through Simplex.

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

[222] buy with Simplex and Credit Card

[223] by Blockchain

[224] buy Bitcoin with Simplex, Coinbase

[225] by Coinbase

[226] Bitrefill Integration

[227] Bitrefill Gift Cards

[228] Buy Gift Cards with Bidali

[229] Use Bitpay Visa Card or buy Gift Cards

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

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

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

[233] their own integration

[234] Shapeshift and Changelly

[235] Changelly to exchange altcoins and Bitcoin

[236] You can swap many altcoins to Bitcoin.

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

[238] Shapeshift powered

[239] Yes by Blockchain

[240] Trade altcoins on Shapeshift

[241] by Coinbase

[242] 2 themes and CSS injection

[243] Dark Mode support.

[244] Dark mode available

[245] There are colors, textures & skins.

[246] The background image can be changed.

[247] There are 4 themes

[248] You can import xpubs

[249] You can import addresses and private keys.

[250] Import private key, BIP38 private key,

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

[252] Import private key or addresses

[253] Import private key or addresses

[254] Import Private keys

[255] you can import wif private keys

[256] You can import private keys

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

[258] You can import private keys.

[259] You can import private keys

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

[261] You can import addresses or private keys

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

[286]

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

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

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

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

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

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



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