

COZ Weekly Report #3 - 2017.07.24

COZ is a group of open source developers that formed to support NEO. We provide weekly reports that summarize our goals, projects, and progress. In exchange, the NEO council is supporting these contributions through NEO rewards.

Our governance can be seen at: <https://github.com/CityOfZion/governance>

The community has decided to reward 1186 NEO for the efforts listed below

Save the date:

COZ Electron Wallet (Win/OSX/Linux): Still unnamed - alpha release: July 31.

COZ Explorer: neoscan.io - beta release: July 31.

COZ Portal: coz.community - release: July 30.

**alpha = not ready for critical usage, testing release.*

**beta = good for routine use, not as dependency for other projects.*

**release announcements will be done separated by project owners.*

Projects in early development (opportunities for collaboration):

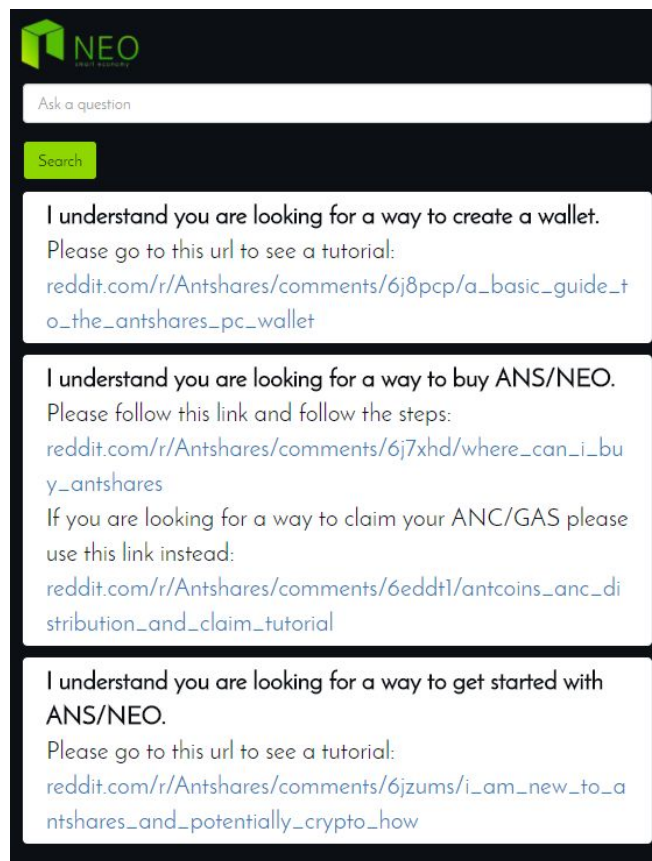
- Youtube mirror of AntShares school videos with english subtitles - 4/8
(<https://www.youtube.com/playlist?list=PLH5FKiukNRU5SHWk9L6qPwRhMeHsiKL2T>)
- Neo-python (python SDK for neo platform) <https://github.com/CityOfZion/neo-python>
 - Finished porting C# ECC implementation, moved to python3, starting python libleveldb implementation, starting sqlite account/wallet implementation
- Smart Contracts documentation
(<https://github.com/CityOfZion/docs/tree/master/en-us/sc>)
- ERC20/223 examples and documentation
 - Currently implementing demo token (Woolong)

Campaigns:

Ecosystem:

- All social media rebranded and migrated to new NEO equivalents
 - [Twitter](#)
 - [Facebook](#)
 - [Slack Channel](#)

- [Reddit](#)
- NEO - Slackbot: a question-answering bot to make support super responsive! (<https://github.com/CityOfZion/neo-slack-bot>)
 - Answers to questions asked in the chat
 - Currently waiting for NEO - Portal to expand
 - Preparing to convert code and refactor
- NEO - Portal: admin interface to manage duties (<https://github.com/CityOfZion/neo-admin-portal>)
 - Invite management basis created
 - Slackbot: manage questions and responses



The screenshot displays the NEO Slackbot interface. At the top, there is a green NEO logo and a search bar with the placeholder text "Ask a question". Below the search bar is a green "Search" button. The interface shows three search results, each in a white box with a black border. The first result provides a tutorial link for creating a wallet. The second result provides a link for buying ANS/NEO and a link for claiming ANC/GAS. The third result provides a link for getting started with ANS/NEO.

NEO

Ask a question

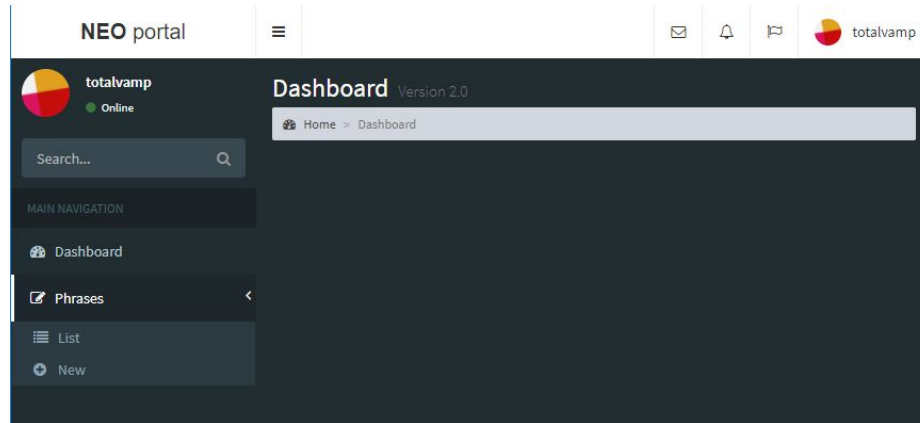
Search

I understand you are looking for a way to create a wallet.
Please go to this url to see a tutorial:
reddit.com/r/Antshares/comments/6j8pcp/a_basic_guide_to_the_antshares_pc_wallet

I understand you are looking for a way to buy ANS/NEO.
Please follow this link and follow the steps:
reddit.com/r/Antshares/comments/6j7xhd/where_can_i_buy_antshares
If you are looking for a way to claim your ANC/GAS please use this link instead:
reddit.com/r/Antshares/comments/6eddt1/antcoins_anc_distribution_and_claim_tutorial

I understand you are looking for a way to get started with ANS/NEO.
Please go to this url to see a tutorial:
reddit.com/r/Antshares/comments/6jzums/i_am_new_to_antshares_and_potentially_crypto_how

Question search over SlackBot



Manage slackbot data

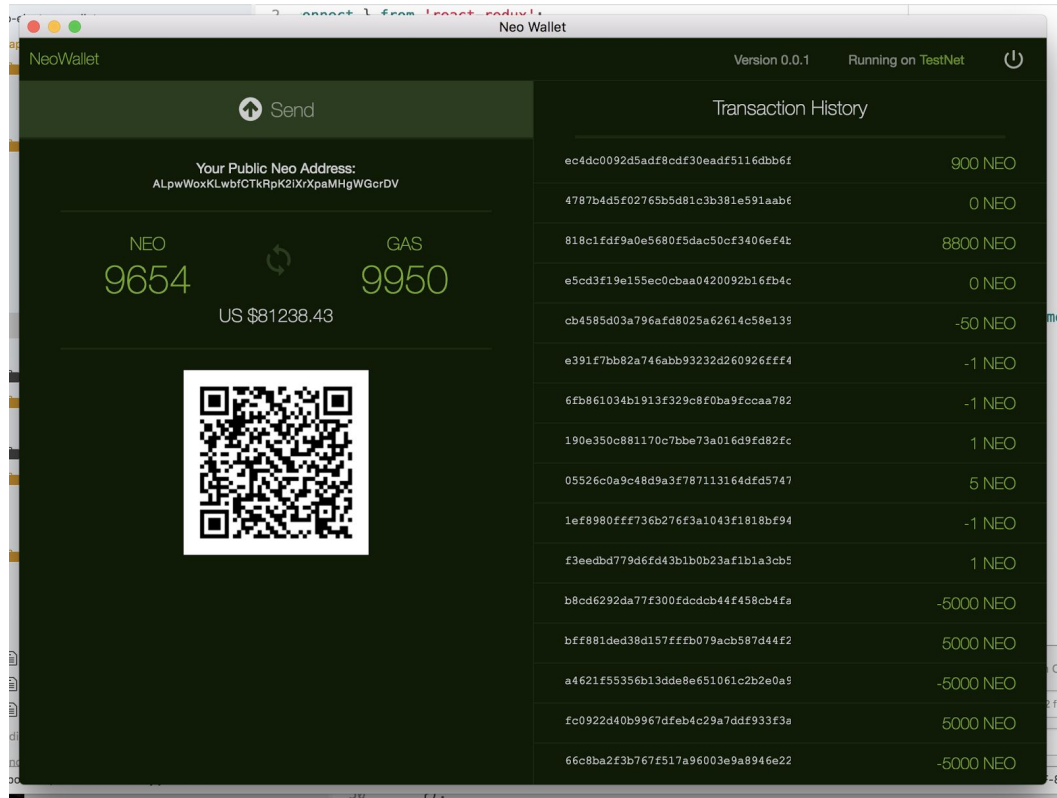
- CoZ ongoing review process for community pull requests.

Documentation:

- Whitepaper 2.0 and additional documentation fully translated, edited, and released

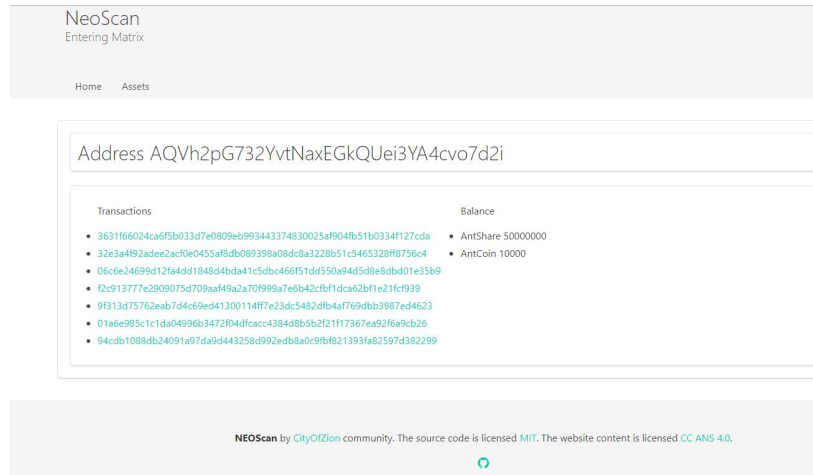
Core:

- Security: ongoing project to audit core code and screen for security flaws and issues.
- Unit Testing: ongoing project, additional collaborators welcome.
 - Useful helper classes and additional code coverage added for Block.cs class.
- Light Wallet API (<https://github.com/CityOfZion/light-wallet-db>)
 - Create scalable, auto-updating MongoDB mirror of MainNet and TestNet chains
 - Live augmentation of incoming transaction data with address metadata ("vin_verbose") to dramatically speed up queries
 - Public API for transaction history and GAS claims (enable development and testing on the SDK and electron wallet)
 - Documentation for interpreting destructured transaction data and GAS claiming
- Electron wallet (<https://github.com/CityOfZion/neo-electron-wallet>)

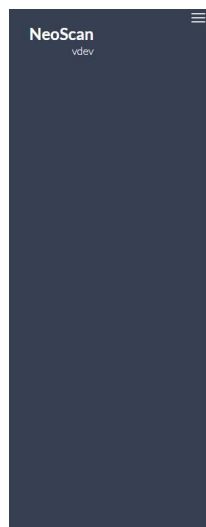


The electron wallet now shows full transaction history with working US \$ balance via Bittrex

- New wallet features
 - US \$ balance check via Bittrex API
 - Full transaction history for an account (via Light Wallet API)
- The JS SDK (<https://github.com/CityOfZion/neo-js-sdk>) has seen continued work to support GAS claiming for light wallets
 - New, working API method to claim GAS over the network protocol using claims returned by the Light Wallet API (when sysfee = 0)
 - Discovery and debugging of system fee logic for claiming
- Block explorer (<https://github.com/CityOfZion/NEOScan>) now can be used to check assets and addresses. V1 API is functional and documented.
 - New APIs for address assets and transaction history, as well as current assets in the blockchain.
 - API page and documentation.



Address holdings and transaction history



Neoscan.Api

Main API for accessing data from the explorer. All data is provided through GET requests in `/api/main_net/v1`. Testnet isn't currently available.

Summary

Functions

`get_address(hash)`
Returns the address model from its `hash_string`

`get_asset(hash)`
Returns asset model from its `hash_string`

`get_assets()`
Returns registered assets in the chain

`get_balance(hash)`
Returns the balance for an address from its `hash_string`

`get_block(hash_or_integer)`
Returns the block model from its `hash_string` or `height`

`get_highest_block()`
Returns the highest block model in the chain

`get_last_blocks()`
Returns the last 20 block models

`get_last_transactions(type)`

New API documentation page

- Improvements to CLI/RPC Server (<https://github.com/CityOfZion/neo-cli/>)
 - Adding claim and check coin functionality to RPC Endpoint
 - Adding endpoint for calculating system fee per block
 - Adding remote node debugging and team remote log viewer

Find...

DashboardEventsAlertsSettingsHelp

vp: vns: pacv

...

P>: "Wq9

...

q.i<Yn:Lg

...

2017-07-23 15:52:02.3127|DEBUG|Neo.Implementations.Blockchains.LevelDB.LevelDBBlockchain|saving system fee: 28750

...

2017-07-23 15:52:02.3127|DEBUG|Neo.Implementations.Blockchains.LevelDB.LevelDBBlockchain|sysfeebytes: 4E-70-00-00-00-00-00

...

2017-07-23 15:52:02.3127|DEBUG|Neo.Network.LocalNode|end method, relayed directly? True

...

2017-07-23 15:52:03.2629|DEBUG|Neo.Network.LocalNode|Local Node- relay inventory 046659b34568ced4d274a485a0311f1836055a88f18bfff482ce1592eda17d1c

...

Received disconnect from 59.45.175.88: 11: [preauth]

...

2017-07-23 15:52:18.9206|DEBUG|Neo.Network.LocalNode|Local Node- relay inventory 74de5f0595f5e5afd0803a8909bc3053ebe3409afbd4fade08be3ace13976839

...

2017-07-23 15:52:18.9264|DEBUG|Neo.Network.LocalNode|end method, relayed directly? True

...

2017-07-23 15:52:19.3218|DEBUG|Neo.Network.RPC.RpcServer|Process:: getblockcount :: []

...

2017-07-23 15:52:19.4649|DEBUG|Neo.Network.RPC.RpcServer|Process:: getblock :: [313623,0]

...

2017-07-23 15:52:19.4649|DEBUG|Neo.Implementations.Blockchains.LevelDB.LevelDBBlockchain|getting block hash for height: \$313623

...

2017-07-23 15:52:19.6094|DEBUG|Neo.Network.RPC.RpcServer|Process:: getblocksysfee :: [313623]

...

vk

Example: "access denied" 1.2.3.4 -sshd

Search

All Systems

Node debugging remotely via papertrail