ASA Stats Token Whitepaper

(Draft 8)

PROBLEM

It is difficult to track the value of all the assets held in an Algorand wallet.

The launch of Tinyman (https://app.tinyman.org) on the Algorand Mainnet network represents one of the crucial moments in the history of the Algorand blockchain. The release of this first Automated Market Maker and decentralized exchange triggered an explosion of Algorand Standard Assets (ASA).

This influx of different assets that Algorand blockchain users can buy, sell or give as a gift brought a new kind of problem to the average user; it has become difficult to know the real value of all the Algorand assets they own.

SOLUTION

On November 9, 2021, the ASA Stats website at https://www.asastats.com launched and became the first solution to the above problem.

The main purpose of ASA Stats is to evaluate and present the current balance for any wallet address on the Algorand blockchain. Such a balance is calculated by adding the existing ALGO balance and the sum of values of all assets in that wallet. Every evaluated asset is accompanied by a link to a page where a user can confirm the accuracy of the presented information.

One of the primary goals and a measure of success for the ASA Stats project is the establishment of a decentralized autonomous organization (DAO) that will take over the direction of the project after the initial phase is successfully completed.

Goals

The primary goal for ASA Stats is to provide the best user experience and to continue to lead the Algorand portfolio tracker category. To support the pursuit of this goal, the project will establish a decentralized autonomous organization (DAO).

ASA Stats aims to have accurate and up-to-date price information for every ASA and NFT that has ever been sold on Algorand. For those that have never been sold, price evaluation algorithms will be developed and, if possible, an informative price will be presented to the user along with the reasoning behind that price. The only way to achieve that goal is through continuous research and development. Such an approach is demanding and requires a lot of effort from everyone involved, but also makes a related utility token an interesting asset for both investors and contributors.

ASA Stats will implement every publicly available SDK (preferably Python) of all major DEX solutions on the Algorand blockchain as soon as such SDK is available. Also, the ASA Stats author/team will actively contribute to those SDK codebases during the pre-DAO ASA Stats phase. As of November 2021, Tinyman AMM (and its py-tinyman-sdk) represents the only available SDK for any AMM/DEX on Algorand Mainnet.

The First Two Weeks of ASA Stats

The [announcement](#) on the ASA Stats launch date was published on the official Algorand subreddit, as well as on the unofficial Algorand subreddit.

Up until the publishing of this whitepaper, those initial posts represent the only marketing effort that has ever been made outside of ASA Stats official channels. Nevertheless, by focusing on the goal of accurately tracking every available ASA price in existence, ASA Stats has quickly found significant traction among users. The service has reached 2 million page hits and 200,000 unique visitors in the first two weeks, and 20,000 average daily unique visitors in the last days prior to the publishing of this document.

The key to this success has been listening and responding to user needs. The agile software development process behind the project has enabled the team to react to those requests, in keeping with the goal of delivering an outstanding UX.

Incoming user requests which have been delivered in the first two weeks since launch include:

- evaluation of users' ASA locked in [Yieldly's smart contracts](#)
- evaluation of [Lofty.ai](#) property tokens
- addition of a dark mode for the website
- ability to toggle the currency and related asset values between ALGO and USD

The server-side code is 100% covered by unit tests and no server-side code will ever go to production without being covered by unit tests. In the week that follows the publishing of this document, the same coverage and principle will take place for the client-side code too. The integration and a functional set of tests will be created at the same time. The integration tests will be used for testing the integration of ASA Stats code with the other services like Tinyman, Algorand Node, etc., while the functional tests will be testing the actual web browsers' presentation of data the way users see them.

The official subreddit at https://www.reddit.com/r/asastats/ and Twitter account at https://twitter.com/asastatscom have been the primary channels for providing news about the project. Both the subreddit and ASA Stats Discord server ([invite link](#)) have been active channels for requesting features, reporting bugs, as well as providing feedback. On top of that, the Discord server has become the project's main discussion channel and through that discussion a framework for the future ASA Stats DAO has begun to take shape.

Upcoming Milestones

NFT Valuation

Every task added to the official roadmap so far has been completed, with the next major milestone being the valuation of any NFT that has ever been sold on Algorand Mainnet.

Real-time Data Refresh

Currently, users have to refresh an address page in order to receive the latest data. The development of real-time data refreshing and tracking is expected to take place either during or after the implementation of the NFT evaluation functionality.

API Call Throttling

An automatic throttling/rate-limiting development will take place soon after, as it is one of the requirements for both business use and adoption of the ASASTATS utility token. Such functionality implies the finished development and published documentation for the ASA Stats public application programming interface (API).

Wallet Bundles

The most requested feature among users has been the possibility to include and evaluate several addresses at once. From a technical requirements perspective, this feature dovetails with the development of API and so its implementation is expected around the same time.

DAO Whitepaper

Before the ASA Stats DAO can be established, the DAO Whitepaper defining the major principles and functioning of the ASA Stats DAO will be created.

Open Sourcing of Code

One of the requirements for establishing a DAO is the open-sourcing of all code used for running the website. After that requirement is fulfilled, and the ASA Stats DAO has been established, the ASA Stats team will no longer have any official role in the project. Any team members' participation in the DAO development and organization processes will be decided upon through DAO governance.

AUTHOR / TEAM

In the first phase of the ASA Stats project, up to the publishing of this document, the only core developer and website administrator has been Ivica Paleka (Zadar, Croatia, EU; ipaleka (at) hopemeet.me; [GitHub](); [Stack Overflow](); read a short biography in the Appendix). For the rest of this document, he will be referred to as the Author.

Other people have contributed to the project by providing smart contract insights, code snippets, by researching and explaining the mechanisms behind some of the apps that ASA Stats covers, etc.

On top of that, valuable community members have contributed by reporting the bugs, requesting features, conducting quality assurance tests, and providing other valuable insights. As the ASA Stats evolves and matures, some of them, together with the other current and future community members, will hopefully join the Author and become the members of the team that will bring the project to the DAO phase. For the rest of this document, they will be referred to as the Team.

Team Obligations and Responsibilities

The following Team obligations and responsibilities will be taking place up to the establishment of ASA Stats DAO:

- Core software development
- Project administration
- Establishment and administration of the legal entity
- Features development
- Bugs fixing
- Establishment of the processes inside official channels that will monitor and signal any application and/or project launch on the Algorand Mainnet that will require the update of the ASA Stats software
- Rewarding the community members and encouraging their involvement in the official channels
- PR and marketing
- Partnerships negotiations
- Gradually open-sourcing the codebase

TOKENOMICS

General Information

ASA Stats Token is created with the following immutable properties:

Name: ASA Stats Token
ID: 393537671
Unit name: ASASTATS
Total supply: 1,000,000,000
Decimals: 6
URL: https://www.asastats.com

Clawback and freeze addresses are not set.

Token Allocation

ASASTATS token will be allocated into seven different pools, each of them with a different purpose. Note that the term "allocation" is used throughout this document to refer both to tokens that are actually allocated to a pool-specific wallet, as well as tokens that are defined as a percentage but not already transferred to the related wallet.

Every transfer in and out of any pool in the pre-DAO phase will be conducted by the Team and also listed in the Team's monthly financial/transparency reports. Trading using pools' ASASTATS is forbidden - ASASTATS transferred out of the pool aren't allowed to be brought back. A way for refilling a pool with ASASTATS is through reallocation upon charging the ASA Stats professional services (explained later in this section).

The exception to the rule from the previous paragraph is a possibility that the Team uses its ASASTATS for providing liquidity to AMM's ASASTATS/ALGO or ASASTATS/USDC pools. For such an act to occur, a decision and eventual quantities involved have to be discussed in the ASA Stats official channels.

A distinction between team members' work and community contribution should be emphasized: if someone is paid for the work (Pool #1 below) that means they aren't allowed to be rewarded from any other pool than the Team rewards pool (Pool #3). The main reason for this is that a Team member has specific obligations and responsibilities, whereas others do not.

None whatsoever formal and/or informal obligation for a receiver of rewards from Pools 3, 4, 5, and 6 may ever take place. Once received as a reward, ASASTATS is completely out of scope for the Team and everybody else in the community.

The next subsection lists all of the pools with a related percentage of the total supply, together with their description and purpose.

Token Pools

1) Development Pool (20%)

A total of 200,000,000 ASASTATS will be allocated to this pool for the purpose of funding the development of ASA Stats in the pre-DAO phase. The funds from this pool will be used for the Team members' salaries and for other development costs during the pre-DAO phase.

2) Administration and Costs (12%)

A total of 120,000,000 ASASTATS will be allocated to this pool for the establishment and administration of the legal entity behind ASA Stats, for purchasing and other costs for ASA Stats servers, for marketing expenses, for sponsoring community events, for outsourcing costs, for partnerships expenses, and for other expenses that will emerge during the pre-DAO phase.

3) Team Rewards (12%)

A total of 120,000,000 ASASTATS in 24 monthly batches of 5,000,000 ASASTATS will be allocated to the team members. If the Team succeeds in transferring all responsibilities to DAO in a period shorter than 2 years, that fact won't change the influx of their rewards.

4) Community Rewards (15%)

A total of 150,000,000 ASASTATS will be allocated to the community members for the purpose of rewarding their contribution to the ASA Stats project, as well as for other activities in the official channels and elsewhere. Such activities include channels administration, participation in games and lotteries, creation of NFTs, etc.

5) Airdrops (8%)

A total of 80,000,000 ASASTATS will be allocated for the users and community members, as well as to the potential users and community members. The funds from this pool will be used for rewarding contributions or other activities that are not easily measurable – if they are measurable then pool 4 should be used instead.

6) Giveaways (2%)

A total of 20,000,000 ASASTATS will be allocated for the purpose of attracting potential users. The main distinction and difference between this pool and pool 5 are in the rewarding process: while the airdrops are planned and scheduled, as well as always conducted directly from the related pool, a giveaway can be conducted by any trusted community member, and even by using that member as a proxy (this means that a community member may send a giveaway from their account and ask for compensation from this pool afterward).

7) DAO (the rest of the supply)

Any token from pools 1, 2, 5, and 6 that has not been spent in the pre-DAO phase will be transferred to this pool upon the establishment of the ASA Stats DAO. The further allocation and purpose of those funds is in the scope of "ASA Stats DAO Whitepaper".

Utility Background

ASA Stats Token is a utility token meant to be used for purchasing various professional services from ASA Stats. Target customer groups for those services are among others seasonal and professional traders, software developers and providers, as well as advanced ASA Stats users.

ASASTATS received by charging the professional services will be reallocated to the pools defined in the Token allocation section. A prioritization in reallocating will take place based on the pools' current needs and their states related to initial allocation.

ASA Stats aims to become a primary source for price information on Algorand blockchain among traders and software companies as it will bring every price available from any Algorand DEX or AMM, as well as from any NFT marketplace.

One of the requirements to achieve that goal among professionals represents a continuous and ongoing effort to remain at the top position in the Algorand community for account evaluation and portfolio tracking software. For that and for many other reasons, ASA Stats will continue to provide free services for average, non-professional use.

Utility Token Applications

The development and implementation of the ASA Stats application programming interface (API) will enable the majority of applications for ASASTATS utility token. It is planned for those applications to be discussed and defined inside the ASA Stats community during both the pre-DAO and DAO phases. Here are some likely candidates:

- API calls for hundreds or thousands of prices at once.

- Creation of "unlimited" numbers of evaluation bundles:

    A bundle represents a group of selected addresses merged together for various purposes. For example, a user could name a bundle "Subsidiary Boston" and keep only the company's addresses belonging to the Boston subsidiary. Another example is "real estate" where only the property tokens from Lofty.ai and alternatives will be included.

- API calls for hundreds or thousands of addresses/bundles at once.

- Creation of price events:

  Users will be able to create events that would be triggered based on the condition(s) they configure.

- Creation of address/bundle events:

  Users will be able to create an event that would be triggered based on the conditions for a specific address or bundle. For example, an event can be triggered when an entity's total value rises above or drops below a defined amount. Those amounts can be set in any currency the user selects.

- Selection of event processing method(s):

  Users will be able to select different methods of notifications upon event triggering. Those methods include sending an SMS, email, or browser notification message. Also, a customized call can be sent to a user-owned service created for the purpose.

- Real-time connection to the events messaging system:

  Users will be able to subscribe and unsubscribe from their events page on ASA Stats by simply visiting the page.

- ASA Stats web widgets for user websites:

  Users will be able to place customized widgets with address/bundle events and values directly on their websites.

- Customized response report formatting:

  Users will be able to order, directly from ASA Stats or from its partners, a customized format for data received from any API call request.

The plans for ASA Stats imply focusing on the API service only and it will stay open for partnerships with the companies that execute actual buys and trades - ASA Stats does not currently plan to enter the business of executing trading calls. ASA Stats rather aims to provide a robust, reliable, and trustworthy service for the other businesses or individuals in that field.

Aside from the features mentioned above, we expect that many other applications for the ASASTATS token will emerge, as API usage by third parties increases.

INITIAL TOKEN DISTRIBUTION

ASA Stats is created for the users and because of the users. This section's content is created based on that fact.

Presale

A part of the Development Pool funds will be offered for purchase to qualified community members. This offer absolutely and without any doubt represents only a privilege and no obligation whatsoever.

The presale pool inside the Development Pool is divided into slots with 1,000,000 ASASTATS in each slot.

Such a full amount of ASASTATS will be transferred to those qualified members who send 500 ALGO to the address that will be revealed to them after they confirm their participation in the presale.

The minimum purchasing amount for a slot is 50 ALGO and it relates to 100,000 ASASTATS that will be transferred to the qualified member account upon payment.

There's no possibility for multiple steps purchasing inside a single slot. If a qualified member has sent 50 or 200 ALGO that implies the final decision and the rest of the slot value is no longer available to purchase for anybody.

No other people but qualified members are allowed to purchase ASASTATS in the presale. The first time when an amount in ALGO from an unauthorized account arrives, the full amount will be returned to the sender. Subsequent attempts from the same sender will be directed to a charity organization chosen by the Team.

This presale offer is going to be valid for at least two weeks, with an option for prolongation up to the end of this year if those who have qualified provide a valid reason for such a postponement.
A qualified member cannot transfer any of their slots to anybody outside, and whether or not a qualified member would be able to transfer their privilege to some other qualified member is yet to be decided in the ASA Stats Discord.

ASA Stats Team will start transferring purchased ASASTATS to the qualified accounts on Friday, 26 November 2021, at 19:00 UTC.

Community Members Qualified for Presale

- First Developer: 5 slots
- First Admin: 5 slots
- First Debater: 5 slots
- First Contributor: 5 slots
- First Writer: 5 slots
- First Investor: 5 slots
- Member of Asastatser group: 2 slots

   The final number of Asastatser group members is **31** members.

- Member of Investor group: 1 slot

   On December 10, 2021, the final number of Investor group members who had approached the presale was **11** members.

Note that community members cannot receive slots from multiple roles. For example, the First Writer who is also a member of the Asastatser group will only receive the 5 pre-sale slots from their role as First Writer.

This group members' labeling in the Discord Server, Twitter, and subreddit will start upon publishing of this document. In short, whoever expressed a desire to be part of the presale (before Wednesday, 24 November 2021, at 21:00 UTC) on those platforms (as a comment to an official ASA Stats post/tweet) is qualified.

The presale, which is only open to qualified community members (as described above), will last for 15 days, with an extension until 12/31/2021 for those qualified community members who are US citizens. This extension has been granted to allow time to determine how to deal with US regulatory issues. Finally, at the end of 2021, it is decided that all the slots belonging to US citizens will be compensated with 200,000 ASASTATS. As of January 2022, 14 members of the initial Asastatser group are verified as US citizens by an administrator of the official Discord server and the related tokens have been allocated to their accounts.

The final number of qualified members who chose to invest in the presale will be updated in the final version of this document.

Disclaimer: ASASTATS tokens are sold on an "AS IS" basis without warranties of any kind.

Community Rewards

A part of the Community Rewards pool funds will be transferred to the members of the community who have contributed to the project in the first two weeks.

A unit of measure has been introduced for this purpose inside the ASA Stats community, and this document defines its value:

1 damo = 1,000,000 ASASTATS

Here are listed the community members who have qualified for the rewards, sorted by the related reward amount:

- First Contributor: 1.00 damo
- First Debater: 0.80 damo
- First Writer: 0.80 damo
- The members of Asastatser group: no less than 0.10 damo

A Reddit post and a Discord channel will be created for the purpose, where community members may argue about their qualifications and where the process of sending their addresses will be explained.

ASA Stats Team will start transferring rewarded ASASTATS to the qualified accounts probably on Saturday, 27 November 2021, at 15:00 UTC.

ASA Stats Community Airdrops

A part of the Airdrops pool funds will be transferred to the members of the ASA Stats community.

Please bear in mind that this airdrop is absolutely the exception to the rule: the community members who are going to be rewarded will be awarded only because they haven't got this information about the reward. No airdrop in the future will ever be organized based on users' comments outside the official ASA Stats channels.

Here are the categories of community members who have qualified for the rewards:

- Reddit posters and commentators: 0.03 damo

  As there's no possibility to identify subreddit subscribers, this list is going to be created based on the redditors' posts and comments created before the whitepaper release date (Wednesday, 24 November 2021, at 21:00 UTC). Every redditor who created a post or commented in the official ASA Stats subreddit is qualified for an airdrop. Also, every other redditor who has positively commented in the rest of the Reddit space about ASA Stats is qualified too.

- ASA Stats Discord members (333 members): 0.02 damo

- ASA Stats Twitter followers (246 followers): 0.02 damo

The list from above is defined on Wednesday, 24 November 2021, at 21:00 UTC. Please don't edit the related platform's comments that have caused you to qualify as that may disqualify you.

A Tweet, a Reddit post, and a Discord channel will be created for the purpose where community members may argue about their qualifications and where the process of sending their addresses will be explained.

DO NOT POST YOUR ADDRESSES IN THE PUBLIC SPACE.

ASA Stats Team will start transferring rewarded ASASTATS to the qualified accounts probably on Sunday, 28 November 2021, at 15:00 UTC.

Algorand Community Airdrops

A part of the Airdrops pool funds will be transferred to the members of the Algorand community.
The list below is defined on Wednesday, 24 November 2021, at 21:00 UTC.

Here are the categories of Algorand community members who have qualified for the rewards:

- Decipher event visitors: 0.02 damo
  - Whoever bought a ticket for the physical Decipher event before the whitepaper release date (Wednesday, 24 November 2021, at 21:00 UTC) is qualified.
- Decipher event virtual visitors: 0.01 damo
  - Whoever bought a ticket for the virtual Decipher event before the whitepaper release date (Wednesday, 24 November 2021, at 21:00 UTC) is qualified. Both VIP and regular tickets are valid.

A Tweet, a Reddit post, and a Discord channel will be created for the purpose where community members may argue about their qualifications and where the process of sending their addresses will be explained.

DO NOT POST YOUR ADDRESSES IN THE PUBLIC SPACE.

ASA Stats Team will start transferring rewarded ASASTATS to the qualified accounts probably on Sunday, 28 November 2021, at 20:00 UTC.

Appendix

Ivica Paleka (short biography)

Started with professional programming during university by creating desktop software for financial and inventory accounting. In the years that followed, designed and created various desktop software for various purposes and clients, namely accounting software for cafe bars, shops, exchange offices, bus and boat traveling tickets systems, etc. First web programming projects coincide with the first work in a team in 2000. - was hired by an IT company for the job of designing and developing applications in ASP/VBScript.

After a few years, completely switched to Python and since then has developed desktop software with related Python wrappers for GTK, Qt, wxWindows/wxWidgets, and Tkinter, and has developed web applications in Django. Had been working in a team of enthusiasts as a partner for a few years.

Has been focused on mastering some new technologies lately, like unit and functional testing, NoSQL, continuous management and deployment, GNU/Linux system administration, system security, etc. Also, changed the development process to test-driven development.
Since then, developed and managed to get to production a long-planned project, the [Hopemeet match engine](), and have developed [arrangeit]() - the open-source and cross-platform successor of the own shareware created in the Nineties.

Has familiarized himself with the Algorand blockchain for the last few months. Created and maintains [the repository]() with an Ansible script for provisioning the Algorand Node on all the popular contemporary operating systems. Has been a community member active among others in the official Algorand channels like Algorand Discord, GitHub, forum, and subreddit, as well as involved in creating the publications and related public code repositories for the Algorand developer portal ([Getting started with Python Algorand SDK and Django]() and [Create and test smart contracts using Python]()).