White paper

Visio

The blockchain platform

Content

What Is the Visio Platform

Visio is a distributed CMS system, in which databases are mirrored using data stored in bchain, while the individual CRUD functions are added via a node server. The data is entered into transactions and are therefore stored in bchain. Each individual node then reads those transactions and creates data in the database accordingly. In this way, all users' data are synchronized 1 x n.

We use bchain due to the fact that it guarantees immutability – the stored data cannot be changed and at the same time we can define rules governing the types of data each user may or should store. Whoever is synchronized with the bchain has the same data in the database and it is consequently not necessary to deal with multiple node synchronization.

POS Supply: Infinity with 1% inflation
POW Reward: 4 Visio Per Block until 250k Block
POS: 1 Visio/Block
Coin Maturation: 51 Blocks
2/3% ~ POW/POS Inflation
in the first 6 Months
so between 1.24 M and 1.86 M

Architecture

The Visio Platform uses the IPFS network. We use it not only because it is open source and is developed continuously, eliminating the need for development on our part, but mainly because it is a state-of-the-art network that is able to distribute the system using a protocol that is better and more modern than HTTP. IPFS has certain limitations, but so does HTTP. Thanks to IPFS, Visio does not for instance need a complex server solution, because the users can install IPFS on their own, similarly to a server.

Coin specifications

Initial Supply:	62 Million
Block Time:	1 Minute
ICO:	50 M @ 150 Sats
Dev Fund:	10 M
Bounty Fund:	2 M
POW:	
Duration:	~6 months
Algorithm:	X13

Within the IPFS network, Visio can index, search or filter data in various ways. The network can migrate, as it is not bound by IP addresses. This means that you can turn on a computer or server anywhere in the world, your node connects to the network and everything works perfectly. Example: You want to access file "abc.xyz". You place a search query with that filename. You are not concerned with what user owns the file or what server or continent it is stored on – the network takes care of that for you.

This solution is much better and more flexible for CMS, as it monitors the content. If the user knows what they are looking for, they place a query and the CMS returns the results immediately. The user does not need to deal with how the content gets to him or where it is stored. The Visio Platform and the IPFS take care of all that.

If it weren't for IPFS, we would have to operate with information such as what server stores the content and what to do if the server is unavailable, we would have to perform backups, etc. The IPFS network eliminates this, and this is why it is used e.g. by Ether and others.
The Visio Platform consists of the following layers:

1. **Content**
2. **User management**
3. **Rewards, payments**
4. **Services**

We intentionally use a high degree of modularity in order to maintain a clear project structure and allow for future expansions.

Working With the Content

The Visio Platform treats content irrespective of its type – whether it's video, audio, DOC, PDF or other types of data. If it is possible to download the given content via HTTP or call it using API, we can work with it. Visio can also manage content categories of any type (author, category, date created, date modified, etc.).

However, Visio is not only a file list with a search functionality – working with content is adapted to particular user requirements. If you, for example, want to provide certain content as a reward, you can easily do that with Visio.

Visio includes not only content management but also user management (who can do what with certain content) and service management (payments, affiliate etc.) features. The CMS thus reflects the needs of customers as well as providers, who want to generate revenue.

Here we use the bchain in order to make the system fully distributed. In this way we do not need to store usernames, passwords or access rights for the individual items in the central database.

Sources of the Content

The content is added by users and communities. The Visio Platform does not add or moderate the content. The platform can be used for creation and distribution of original content (similar to e.g. YouTube) as well as personal data backup. It is fully up to the users how they want to treat their content, which is then moderated by the community. The Visio Platform provides all functions necessary to comply with all legal requirements.

Content creator (user) can define access levels for their content:

1. **Free-of-charge access**
2. **Paid access**
3. **Bounty access** *(content becomes accessible automatically after the community has contributed a specified amount of visios).*

The user can define the visibility of the content (private, set group of people, whole community) and its price (free, partly paid, fully paid). The paid content can be made accessible to individual users after individual payments, or, alternatively, it can be made accessible to the whole community after a requested amount has been collected from the community. Lease options or monthly subscriptions are available as well. Payments are signed by Masternodes.

Deleting Content

Since the Visio Platform does not have any content, it cannot delete anything on its own. However, a moderator from the community can flag content as undesirable, and the CMS will therefore stop displaying it.

Key Functions

User Profile

Instead of a usernames, we use Visio addresses. By virtue of distribution, we have a better, unhackable and unchangeable history including details such as how many visios each address currently has, etc.

Thanks to this solution, we can offer 2 user profile types – anonymous or with a public identity. This is fully up to the user's decision.

Another advantage of the Visio Platform is that signing transactions does not have to be bound to the main wallet address. Instead, this is a general function – by creating a user profile, the user also creates a signature. Each profile is therefore autonomously anonymous and one user can have several addresses.

User Management

User management in the Visio network is based on the users' rank and karma.
Rank calculation is simple and it includes the following:

- ✔ **Time for which the user has been in the system,**

- ✔ **Content addition and creation.**

The karma is related to how other community members rate the user's activity – positively or negatively. High karma means the user enjoys a good reputation, is popular and helps develop the community. The rank, on the other hand, means higher trustworthiness from the perspective of the system.

User groups can be added and expanded at any time and each group can have a different role.

The initial roles will be:

1. **No name**
2. **User – standard**
3. **Moderators**
4. **Admin / Devs**

The moderators will be initially defined from the group of developers and users with the highest amounts of visios. Subsequently, more moderators will arise from the community. The criterion for a user to become a moderator is a high karma to rank ratio, or, as the case may be, a poll, request or evaluation from the community.

Nodes and Masternodes

Basic nodes will be able to search and add content. The condition for a user to became a node is null – it is sufficient to download and install the wallet.

Masternodes will be able to deal with bounty, vaults, etc. The conditions for a Masternode will include possession of a certain amount of visios and other small conditions which will be disclosed on the go.

Advertising System

The advertising system will be managed at the node level. The users will be able to publish their own advertising over their content. The displaying of ads will be governed by predefined templates. Ads can be hidden by donating to the user in order to help him create and manage his content (using the Donate function).

Vault

The user can save and pin files from their own server/pc. Other users are able to pin these files, resulting in a stronger and more robust network. However, pinning is not necessary in order to view the content or work with it. Users can share and evaluate the content or donate to the user. See User Management for more information.

This will give rise to Vault Nodes, which will receive rewards for providing content. More details will be specified later.

API

Third parties can use the content using API. The content will be made accessible via public nodes. API access will also be subject to the free/paid system.

Payments and Rewards

Payments

The Visio network and platform will charge fees for certain transactions (e.g. bounty, payments, ads, etc.). Exact figures will be specified later.

Bounty System

Partner programs will be paid from advertising system revenues or donations by the community.

- ✔ **Credit collection for sharing – the author receives bounty reward for every single share.**
- ✔ **Credit collection for adding IPFS – the author receives bounty reward for every single share.**
- ✔ **Credit collection for nodes – the author receives bounty reward for every single node.**
- ✔ **Rewards for views – the author receives bounty reward for every Xth view.**
- ✔ **Users can say thanks to the author – the author receives bounty reward for every X credits.**
- ✔ **Rewards for new user referral.**
- ✔ **Content provided on request – users can request certain content and whoever adds the given content receives credits from the requestor.**

For referring a new community member, you receive a reward of X visio from the community. Moreover, if the new member is so satisfied with the community that he makes a donation, you receive a reward of X % of their donation from the first line of the recommended, X % from the second level and X % from the third level.

Monthly Prizes

E.g. Top 5 Authors of the Month:

250 : 1st place
200 : 2nd place
150 : 3rd place
100 : 4th place
50 : 5th place

Annual Prizes

E.g. Top 5 Authors of the Year:

250 : 1st place
200 : 2nd place
150 : 3rd place
100 : 4th place
50 : 5th place
etc.

We reserve the right to change or modify the described functionalities or the time schedule.

Visio

A Distributed Content
Aggregation Platform
(DCAP)