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Viction - The Efficient Blockchain Powered by Proof of Stake Voting Consensus

*Preliminary draft, comments are welcomed at
<https://docs.viction.xyz/faq/general/company>*

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PREFACE

Viction's Vision and mission

Viction is a global layer-1 blockchain that empowers individuals and projects at every stage of their journey. We are committed to providing the foundational infrastructure and advanced tools necessary for individuals and projects to flourish. By fostering innovation, stability, and collective growth, we enable them not only to be supported but to unlock their full potential, creating a future where creativity and progress know no bounds.

Viction is an innovative solution to the scalability problem with the Ethereum blockchain, and other current blockchain platforms. Viction relies on a system of 150 Masternodes with Proof of Stake Voting (POSV) consensus that can support near-zero fee, and 2-second transaction confirmation time. Security, stability and chain finality are guaranteed via novel techniques such as double validation, staking via smart-contracts and "true" randomization processes.

Viction supports all EVM-compatible smart-contracts, protocols, and atomic cross-chain token transfers. New scaling techniques such as sharding, EVM parallelisation, private-chain generation, hardware integration will be continuously researched and incorporated into Viction's Masternode architecture which will be an ideal scalable smart-contract public blockchain for decentralized apps, token issuances and token integration for small and big businesses.

Scope

This document describes Viction's initial draft for the Viction blockchain's economics system.

1. MASTERNODES

- a. **Masternodes** are full-nodes that create, verify and validate new blocks in Viction's platform.
- b. **Masternode Candidate:** Any account can deposit 50K VIC using the official on-chain governance d-app to become a Masternode Candidate. 50K VIC deposit can earn staking rewards. A Candidate can resign, but the tokens will be locked for the next 30 days (1,296,000 blocks) after the resignation.
- c. **Becoming a Masternode:** A Candidate becomes a Masternode when he/she belongs to the top 150 most voted Candidates in each epoch. A Masternode can resign, but the tokens will be locked for the next 30 days after the resignation.
- d. **Reward:** The reward a Masternode receives in each epoch is proportional to the number of signatures he/she signs.

2. TOKEN VOTING AND STAKING

- a. **Token voting:** Token holders can vote for Masternode Candidates by sending VIC to each Candidate specific voting address using the official governance d-app. Top 150 most voted Candidates will become Masternodes. Token holders can un-vote a Candidate, but the tokens will be locked for the next 48 hours (86,400 blocks) after the un-voting. This lock period is designed to promote the stability of the Masternode system.
- b. **Staking:** Masternode token deposits, and all tokens used to vote for Masternodes will enter a staking program, and earn block rewards in each epoch, plus any fees. Tokens used to vote for Candidates who do not become Masternodes will not earn staking reward.

3. TOKEN EMISSION SCHEDULE

PRE VIP#1 HARD FORK

- a. **Following the fundraising commitment:** The total amount of tokens at the genesis block is 55 million VIC tokens in circulation; 12 millions are reserved for the team vested linearly over the next 4 years (first distribution starts at Genesis block); 16 millions are reserved for strategic partners, and an ecosystem building fund which totals 83 millions tokens. Plus, 17 millions are reserved as block rewards for the next 8 years, the amount of tokens in circulation at the end of the 8th year after the genesis block is around 100 million VIC.

After the mainnet: the block reward for the first and second year is 4 million VIC annually; the block reward for the 3rd, 4th, 5th year is 2 millions VIC annually; and the block reward for the 6th, 7th and 8th year is 1 million VIC annually. Subsequently, the block reward will be halted, or activated at a number less than or equal to 1 million VIC annually.

- b. **Implementation:** Each epoch consists of 900 blocks, which will reward a total of 250 VIC in the first two years. 250 VIC will be divided to all the Masternodes proportional to the number of signatures they sign during the epoch. Afterward, the reward achieved by each Masternode will be divided into three portions. The first portion of 40% called “Infrastructure Reward” goes to the Masternode. The second portion of 50% called “Staking Reward” goes to the pool of all voters for that Masternode which is shared proportionally based on the token stake. The last portion of 10% called “Foundation Reward” goes to a special account controlled by the Masternode Foundation, which is run by Viction Lab initially. The old rewards remain the same even after [**VIP#1 HARD FORK**](#). Newly rewards will be added as an addition to old rewards starting from block #86158494 explained in [**VIP#1 HARD FORK**](#).

POST VIP#1 HARD FORK

a. **Following the fundraising commitment:**

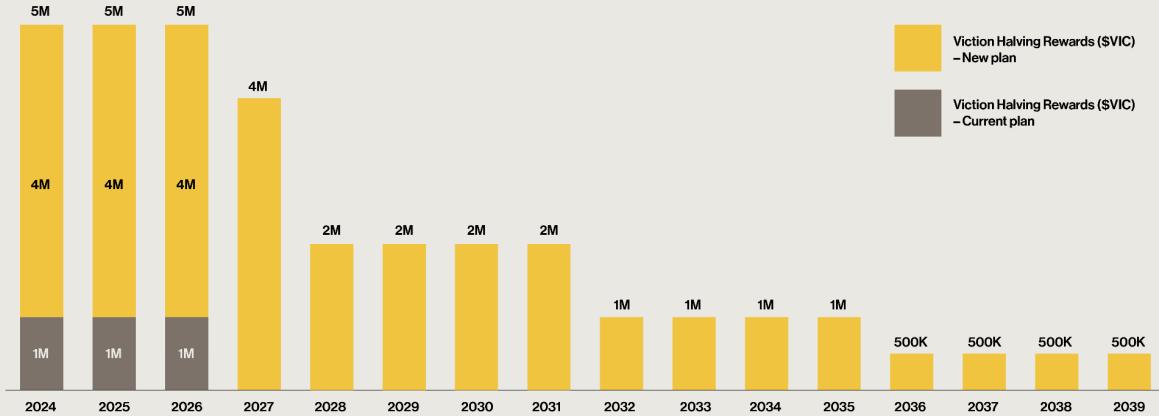
In October 2024, \$VIC, the ecosystem token for Viction, was nearing its maximum supply of 100M tokens, with about 98.3M already in circulation (updated: Jul 12). This results in:

- The incentives for Masternodes, crucial for maintaining network security and stability, need to be improved, potentially impacting their effectiveness.
- The vision of World Wide Chain and Data Availability (DA) necessitates funding for business partnerships, technological research, and development to bring it to fruition.
- Limitation in the ability to incentivize developers, builders, and community.

To maintain a competitive advantage, Viction must proactively attract developers, creators, and institutions. Taking it into action, Viction proposed an adjustment in tokenomics, including:

- **Increasing Security Economic (30M \$VIC):** Masternode rewards will rise from ~1M \$VIC annually to ~5M \$VIC for the first 3 years, followed by a 4-year halving cycle, lasting 16 years in total.

Viction Halving Rewards (\$VIC) - If Proposal Is Approved



VITION ■

- **Future Ecosystem Initiatives (80M \$VIC over 4 years):** Initially managed by the Viction Foundation, this fund will transition to community governance, promoting long-term ownership and empowerment for the community.

Detailed proposals for achieving this objective are outlined [here](#).

#VIP1 HARD FORK is implemented on Oct 29th, 2024 and starting from block #86158494 where 110,000,000 VIC will be added in total which includes 30,000,000 VIC in rewards.

VIP#1: The Need for Viction Future Initiatives



VITION ■

- b. **Implementation:** In addition to the old rewards pre-hard fork. The newly added 30,000,000 VIC reward distribution logic remains exactly the same. The calculation also is each epoch consists of 900 blocks, which will reward a total of 250 VIC in the first two years. 250 VIC will be divided to all the Masternodes proportional to the number of signatures they sign during the epoch. Afterward, the reward achieved by each Masternode will be divided into three portions. The first portion of 40% called “Infrastructure Reward” goes to the Masternode. The second portion of 50% called “Staking Reward” goes to the pool of all voters for that Masternode which is shared proportionally based on the token stake. The last portion of 10% called “Foundation Reward” goes to a special account controlled by the Masternode Foundation, which is run by Viction Lab initially.

4. VOTING/STAKING CONSIDERATION

a. Candidate/ Masternode incentives

Masternodes will receive a significant amount of block rewards, which likely exceeds the cost for running the infrastructure. However, Masternodes needs to invest in Viction by depositing at least 50K VIC, and stake them for a long term. Furthermore, after depositing 50K VIC to become a Candidate, if the account cannot become a Masternode (has less votes than Top 150 most voted Candidates), he/she will receive no rewards. Therefore, Candidates have an incentive to do as much as they can, such as signaling their capability to support Viction to get into the top 150 most voted Candidates.

b. Token voter incentives

Token voters should vote for Candidates who signal a strong support for Viction because if the Candidate does not become a Masternode, voters will not receive any rewards. However, token voters should also vote for the less voted Candidates because the most voted Candidates will receive less reward per token stake comparatively.

5. LONG TERM PLATFORM ECONOMICS CONSIDERATION

a. P/E theory of token value

Equity price can often be a multiple of annual earnings a company generates. In the case of a blockchain platform, earnings could be considered as the total rewards and fees that the platform produces. The multiples for technology startups in the early days could exceed 200 which is where the Ethereum network is approximately at the moment.

b. Quantity theory of money for token value

In this theory, the total amount of VIC can be considered the money supply for the blockchain economy including all the d-apps and tokens on top of Viction. Assuming a constant price, and velocity of money, demand for money will raise proportionally to the total amount of activities of the whole blockchain network, which will raise the price of VIC if the supply of VIC is

fixed, or the inflation rate is very small. Viction's advantages of minimal transaction fee, and very fast confirmation time could spur a massive amount of activities for VIC tokens, and other tokens on top of Viction.

c. Store of value theory of token value

Blockchain native tokens can be considered as a means of fundraising, or the store of value within their own blockchain economy if the supply of the token is fixed, or the inflation rate is very small, and predictable. These conditions are applying to Ether and Bitcoin at the moment, and can be applied to VIC tokens in the future as the Viction's economy grows.

d. Built-in decentralized exchange

Viction roadmap includes a built-in decentralized exchange, in which a portion of fees will be added to the pool of epoch rewards. These fees could be substantial if there are many valuable tokens on top of Viction. This extra feature can increase the future earnings of the network, and raise VIC price based on the P/E theory.

6. DECENTRALIZED GOVERNANCE

a. Become a Masternode

Becoming a Masternode is an important signal of long-term support for the Viction platform. We would welcome other entities to become a Masternode, to show their support by helping the network, and gradually decentralize the platform governance.

b. Masternode Council

It is postulated that Viction platform would later be coordinated by non-profit body such as Masternode Council (or Foundation) amongst many other decentralized bodies which receive a steady amount of income from the network, and act solely in the interest of the network.

c. Technical decision making

The technical decisions should be considered, debated, and decided upon by qualified experts based on the long-term interest of the network.

d. Economic decision making

The economic decisions such as the amount of block rewards, inflation rate, the division of block rewards might be based on the consensus of the majority of the Masternodes (with their voters). Masternode Council (Foundation) could be one of the coordinating bodies for these activities using the official governance d-app.

APPENDIX A: HISTORY OF THE PROJECT

Viction, formerly known as TomoChain, has evolved significantly since its inception in early 2018. After being acquired by NinetyEight in 2023, the platform underwent a transformative [rebranding to become Viction](#).

As of 2024, after [VIP#1 passed](#), Viction successfully made an hardfork to improve the network security by increasing block rewards. Viction aims to revitalize Masternodes, attract new participants, and ultimately strengthen the overall security and resilience of the Viction ecosystem. All details about this hard fork can be found at: <https://blog.viction.xyz/viction-network-upgrade-ready-for-victions-future-initiatives/>

APPENDIX B: REWARD CALCULATION FORMULA AND DETAILS

General notations:

- N: the current number of masternodes, maximum of N = 1.150
- M_1, M_2, \dots, M_N : the set of masternodes in the current epoch
- C_1, C_2, \dots, C_N : the number of signatures a masternode has made
- S_1, S_2, \dots, S_N : the total amount of staked (including deposited and voted) VIC for a masternode
- D_1, D_2, \dots, D_N : the amount of deposited VIC by a masternode
- X: the total reward per epoch for all masternodes
- Total reward per masternode = Infrastructure reward + staking reward
- MN: stand for masternode

Reward divided to Masternode M_i :

$$R_i = \frac{C_i * X}{\sum_{i=1..N} C_i}$$

Reward per epoch:

Masternode infrastructure reward:

$$0.4R_i$$

Voter with 1k voted VIC:

$$\frac{0.5R_i * 1000}{Si}$$

Masternode staking reward:

$$\frac{0.5R_i * Di}{Si}$$

Reward per week (48 * 7 = 336 epochs):

Masternode infrastructure reward:

$$336 * 0.4R_i$$

Voter with 1k voted VIC:

$$\frac{336 * 0.5R_i * 1000}{Si}$$

Masternode staking reward:

$$\frac{336 * 0.5R_i * Di}{Si}$$

Reward per year (48 * 365 = 17520 epochs):

Masternode infrastructure:

$$17520 * 0.4R_i$$

Voter with 1k voted VIC:

$$\frac{17520 * 0.5R_i * 1000}{Si}$$

Masternode staking reward:

$$\frac{17520 * 0.5R_i * Di}{Si}$$

Total reward for a masternode:

$$17520 * 0.4R_i + \frac{17520 * 0.5R_i * Di}{Si}$$

Applying the reward calculation formula to specific scenarios

Note that, for simplification of illustration:

- The total amount of staked VIC for all masternodes is equal
- The signatures for all masternodes in the scenarios are equal

With these assumptions, all masternodes receive the same divided reward (R) and the same infrastructure reward. Furthermore, the reward for Voters with 1k voted VIC is equal regardless of which the amount is voted for.

Scenario 1: 50 Masternodes, 2.5 million token voting, a total of 5 million token locked.

$$N = 50, X = 250, S_1 = S_2 = \dots = S_{50} = 5\,000\,000 / 50 = 100k$$

$$C_1 = C_2 = \dots = C_{50}$$

$$\text{Therefore, } R_1 = R_2 = \dots = R_{50} = R = X/50 = 5 \text{ VIC}$$

Reward per epoch:

$$\text{MN infrastructure reward} = 0.4 * 5 = 2 \text{ VIC}$$

$$\text{For Voter with 1k voted} = (0.5 * 5 * 1000) / 100k = 0.025 \text{ VIC}$$

MN staking reward with 50k VIC deposited: $50 * 0.025 = 1.25$ VIC

Reward per week:

MN infrastructure reward = $336 * 2 = 672$ VIC

For Voter with 1k voted = $336 * 0.025 = 8.4$ VIC

MN staking reward with D = 50k VIC deposited: $336 * 1.25 = 420$ VIC

Reward per year:

MN infrastructure reward = $17520 * 2 = 35\ 040$ VIC

For Voter with 1k voted = $17520 * 0.025 = 438$ VIC

MN staking reward with 50k deposited: $17520 * 1.25 = 21900$ VIC

Total reward per MN with D = 50k deposited: $35\ 040 + 21\ 900 = 56940$ VIC

Scenario 2: 100 Masternodes, 3 million token voting, a total of 8 million token locked.

$N = 100, X = 250, S_1 = S_2 = \dots = S_{100} = 8\ 000\ 000 / 100 = 80k$

$C_1 = C_2 = \dots = C_{100}$

Therefore, $R_1 = R_2 = \dots = R_{100} = R = X/100 = 2.5$ VIC

Reward per epoch:

MN infrastructure reward = $0.4 * 2.5 = 1$ VIC

For Voter with 1k voted = $(0.5 * 2.5 * 1000) / 80k = 0.015625$

MN staking reward with D = 50k deposited: $50 * 0.015625 = 0.78125$ VIC

Reward per week:

MN infrastructure reward = $336 * 1 = 336$ VIC

For Voter with 1k voted = $336 * 0.015625 = 5.25$ VIC

MN staking reward with D = 50k deposited: $336 * 0.78125 = 262.5$ VIC

Reward per year:

MN infrastructure reward = $17520 * 1 = 17\ 520$ VIC

For Voter with 1k voted = $17520 * 0.015625 = 273.75$ VIC

MN staking reward with D = 50k deposited: $17520 * 0.78125 = 13687.5$ VIC

Total reward per MN with D = 50k deposited: $17\ 520 + 13\ 687.5 = 31208$ VIC

Scenario 3: 150 Masternodes, 12.5 million token voting, a total of 20 million tokens locked.

$N = 150, X = 250, S_1 = S_2 = \dots = S_{150} = 20\ 000\ 000 / 150 = 133\ 333$

$C_1 = C_2 = \dots = C_{150}$

Therefore, $R_1 = R_2 = \dots = R_{150} = R = X/150 = 1.6667$ VIC

Reward per epoch:

MN infrastructure reward = $0.4 * 1.6667 = 0.6667$ VIC

For Voter with 1k voted = $(0.5 * 1.6667 * 1000) / 133\ 333 = 0.00625$ VIC

MN staking reward with 50k deposited: $50 * 0.00625 = 0.3125$ VIC

Reward per week:

MN infrastructure reward = $336 * 0.6667 = 224$ VIC

For Voter with 1k voted = $336 * 0.00625 = 2.1$ VIC

MN staking reward with D = 50k deposited: $336 * 0.3125 = 105$ VIC

Reward per year:

MN infrastructure reward = $17520 * 0.6667 = 11\,680$ VIC

For Voter with 1k voted = $17520 * 0.00625 = 109.5$ VIC

MN staking reward with D = 50k deposited: $175\,20 * 0.3125 = 5475$ VIC

Total reward per MN with D = 50k deposited: $11\,680 + 5475 = 17\,155$ VIC