

ZVCHAIN

ZVChain Staking Nodes Program Guide

For : Staking Nodes

By : ZV Foundation

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Project Summary

Introduction to ZV Chain

ZV Public Chain is a professional financial public chain that boasts high security and robust performance. By providing a decentralised accounting system that conforms to traditional financial logic.

ZV Coins are a cryptocurrency used in the ZV Chain ecosystem as a network fuel for decentralised financial services. Through a compact infrastructure design, it achieves the balance between privacy and financial security features. Users will have the options to select their transactions recorded on the blockchain to be private or public data. ZV Chain is managed by a non-profit foundation. The protocol utilises a Proof of Stake (PoS) mechanism.

ZV Coin Plan

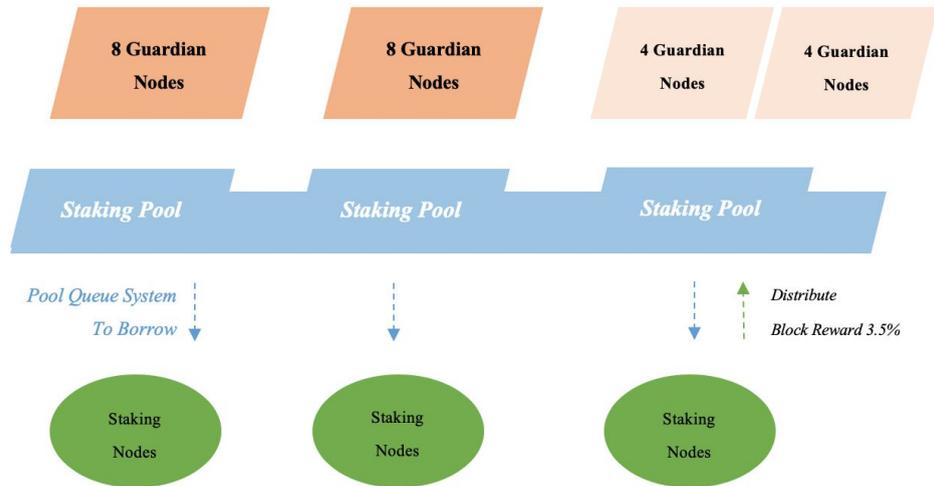
ZV Chain plans to launch its main-net program in Sept 2019. 10% of the ZV Coin (500 million) will be released to the early supporters of ZV Chain to be guardian nodes.

Coin Symbol	ZV
Attributes	Utility Coin
Total Amount	5 Billion
Available Coin Amount	500 Million

Before 1st July 2019, ZV Coin will be valued at 0.05 USDT each. After 1st July, the price of ZV Coin will experience a weekly increase by 0.005 USDT. The final ZV coin price will be based on the application time stamp, followed by the necessary procedures.

ZV Staking Ecosystem

The relationship of our staking ecosystem will be as follows:



Guardian nodes will be established by staking 2.5 Million ZV Coins. Staking pool will be established by 8 guardian nodes together, by staking a total of 20 Million ZV coins. Guardian nodes can join with other guardian notes to form a staking pool together, or be a part of the foundation staking pool.

Stake coins in this phase will be subjected to be a “6+5” block reward distribution schedule, explained in the following segment. Guardian node will also receive his portion of block reward that’s being proposed and validated in the network. The role of guardian nodes will become increasingly significant as the staking nodes and network usage increase.

Staking nodes will require a minimum of 500 staked ZV Coins to qualify for the block validation participation. By which, he can borrow from the staking pool as a lending right or via secondary market purchase to qualify for the minimum requirement.

Stable operating staking nodes that are selected for the proposal or validator stage, through Chiron Protocol, will receive the block rewards between the range of 3.5 ~ 7%, on a monthly basis. By which, 3.5% of total block reward will be distributed to the staking pool that issued the lending rights. The process of lending and redistribution will be done through smart contract, once staking program has been setup.

Guidance will be provided to the staking and guardian node to setup the proper server and specifications.

ZV Guardian Node

Early supporters will be involved as a guardian nodes. Guardian nodes will join staking pool to receive block reward distribution. In principle, there are no upper limit for the number of guardian nodes that can be registered by the same individual.

Application to become a guardian node will have to fulfill the following requirements:

1. Maintain the total amount of their staked ZV Coins in the staking pool to be more than 2.5 Million ZV Coins for the first six months.

*Note: As the circulating supply of ZV coins will increase, to prevent the situation where a miner node is able to hold all the ZV coins, the requirement of being a guardian node will also increase, as seen in Appendix A.

ZV Staking Pool

Staking pools represent the collective amount of ZV Coins from all guardian nodes. A single staking pool will be established by 8 guardian nodes. In principle, there are no upper limit for the number of staking pools can be registered by the same individual.

In early stage, as ZV coins will be in limited circulation supply, the staking pool will serve as a lending mechanism for new staking nodes to participate.

In theory, the stake coins are not transferred to new staking nodes, but as issuance of the staking participation rights. In return, staking pools will be awarded with 3.5% of block reward distribution.

Application to become a staking pool will have to fulfil the following requirements:

1. User fulfils the requirement to become a guardian node.
2. Maintain the total amount of their staked ZV Coins in the staking pool to be more than 20 million ZV Coins.

ZV Staking Nodes

Staking nodes will play a role in the protection of the network that uses VRF + BLS technology layer for our proposal and validator selection process. Selected nodes will be rewarded with a proportion of block reward.

If the selected staking nodes participated with a lending right from the staking pool, he will redistribute 3.5% of total block reward to the same staking pool. This block reward amount will be explained in the “6+5” issuance plan mentioned below.

ZV Staking Pool Queue

ZV staking pool queue will facilitate the lending rights to new staking nodes, designed in a first-come-first-served smart contract manner. Any participants that leave the staking pool, they will have to re-join the queue system again to access the staking pool.

In the pool queue, upon receiving a lending right issued by the staking pool, the staking nodes will start the validation of the ZV chain network.

Henceforth, ZV staking pool will generate incentives for both new staking nodes participation and staking pools.

ZV Coin Staking Distribution Plan

The first phase of the staking pool plan and benefits are as follows:

ZV Chain’s guardian nodes will be involved in the “6+5” release plan for their staking involvement in the staking pool. All staking pool participants will benefit from the block reward production of 3.5% in ZV Coins. Following the details of block reward production as follow:

Participants	6+5 Issuance Plan	
Staking node Participants	Monthly Issuance from Block Reward Production	3.5%
Coins Will Be Release After 6 Months	Lock	Issue
6 Months After The Launch	100%	21.00%
20% Linear Release Every Month		
7 Months After The Launch	80%	23.50%
8 Months After The Launch	60%	22.80%
9 Months After The Launch	40%	22.10%
10 Months After The Launch	20%	21.40%
11 Months After The Launch	0%	20.70%
12 Months After The Launch		0.00%
Total Coins Income (Estimated)		131.5%

Following the main-net launch, ZV staking pool can introduce other product plans to

incentivise coin holders and network participants. Along with the growth in community support of ZV Chain’s ecosystem, the network will gradually shift to accommodate smaller and individual staking nodes to join staking pools. Staking pool will be provided with a mechanism to select . Reward distribution mechanism across various staking pools will be reflected on our platform, for staking nodes to select from.

Fulfilling the goal to achieve a dynamic balance of decentralisation, security and network speed, this transformation to build the future finance decentralised network is what ZV Foundation hopes to accomplish.

Appendix A

A miner node have to pledge at least 500 ZVC, stake amount will vary with block height and increment of circulating supply.

Note that the initial stake requirement is 2.5 Million for guardian node. For every increase of 10 million blocks recorded in block height, the initial requirement will also increase by 1 million. At the 30 Million block heights, the halving phase will start, and the rate of increase to become a guardian node will be halved as well, until all ZVC is completely release.

The maximum required ZVC amount for a guardian node will be capped at 8.125 Million. The maximum available guardian nodes will be dynamically adjusted to circulating supply.

Block Height	Circulating Supply (Billion)	Increase requirements to be a Guardian Node (Billion)	Required ZVC Amount for Guardian Node (Billion)	Available Guardian Nodes
0	5	0.01	0.025	200
10,000,000	13	0.01	0.035	371
20,000,000	21	0.01	0.045	467
30,000,000	29	0.005	0.055	527
40,000,000	33	0.005	0.06	550
50,000,000	37	0.005	0.065	569
60,000,000	41	0.0025	0.07	586
70,000,000	43	0.0025	0.0725	593
80,000,000	45	0.0025	0.075	600
90,000,000	47	0.00125	0.0775	606
100,000,000	48	0.00125	0.07875	610
110,000,000	49	0.00125	0.08	613
120,000,000	50	0	0.08125	615

*Note: If it is beneficial to the overall ecological development, Foundation may adjust the formula before the main network starts.