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SETH, THE FUTURE BLOCKCHAIN

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INTRODUCTION AND HISTORIC BEHIND THE BLOCKCHAIN

Seth is a name of Hebrew origin found in Judaism, Christianity, Islam and others; it is the name of the third son of Adam. At Seth Research we are building the third or next generation of blockchain after Ethereum, Bitcoin and almost all the other blockchain in place have done their upgrade into their actual version 2.0 to solve and adapt their previous offer into the growing needs of the actual crypto marketplace.

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OUR STORY

Our particularity is that we are building a code efficient and environmentally friendly blockchain with a maximum of features. For that we will start with experimentation for our first phase with a semi-commercial side on it and then we will merge into a fully commercial version. We only have one Earth and climate change is more than an issue, it is a danger!!! Kepler 452b is still far from the Earth. At the time we are working on it, we need to develop climate-wise businesses from crypto into all traditional businesses; with Seth Blockchain we come in using our research approach to bring our part to make this a reality. Think about it!!!

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OUR COMMITMENT FOR THE FUTURE

From now on, we intend to be different by our approach, we don't come with promises but with realism on what we do. In that same direction, we will interact with Activerse for the implementation of the safe "Active Mode" as the first of its kind throughout the future Activerse Tech Company: a NFT safeguarded Avatar. All of this is based on our commitment to the reduction of actual global warming, and we know for a fact that a lot of cryptos have been successful to drive wealth within the economy but unfortunately, they have been failing to defend or protect our wonderful Earth. Just an example Bitcoin uses around 121 TWh per year that means 2-celsius degree on the global warming and Dichotomist estimates that Ethereum miners currently consume 44.49 TWh per year which works out to 5.13 gigawatt on a continuing basis. We need to find ways to reduce all of this.

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HOW IT WORKS

The proof of presence consensus blockchain (PoP) is based on the firsts arrived is the first served by computation of the quality of the miner (Location, Speed, Time saving, Availability, Space…) and will select what zone-node fit the best for the transaction.

The PoP blockchain uses a technology we have named parceling and it works based on the amount of HDD you have available for parceling and zoning then by computation the system will determine the maximum volume of transaction can be sent or handled by a zone-node.

When a transaction is taking place, the system locates an amount of memory to establish the transaction (Zoning) and then sets 2 parcels for the transaction to be initiated. A zone is the fruit of the zoning operation, it's an amount of memory locate for a specific transaction within an HDD based node (Zone-Node) and it contains parcels and inside a node-zone we have got 2 parcels:

- The scripting Zone is where all the heavy coding needed for the transaction will be generate and delete after the update will be done.

- The memory slot, a kind of location where the certification will be generated and signed for use on the transaction.

Those two actions are made for the system to be ready for the positioning on a Decentralized Network made of zone-nodes.

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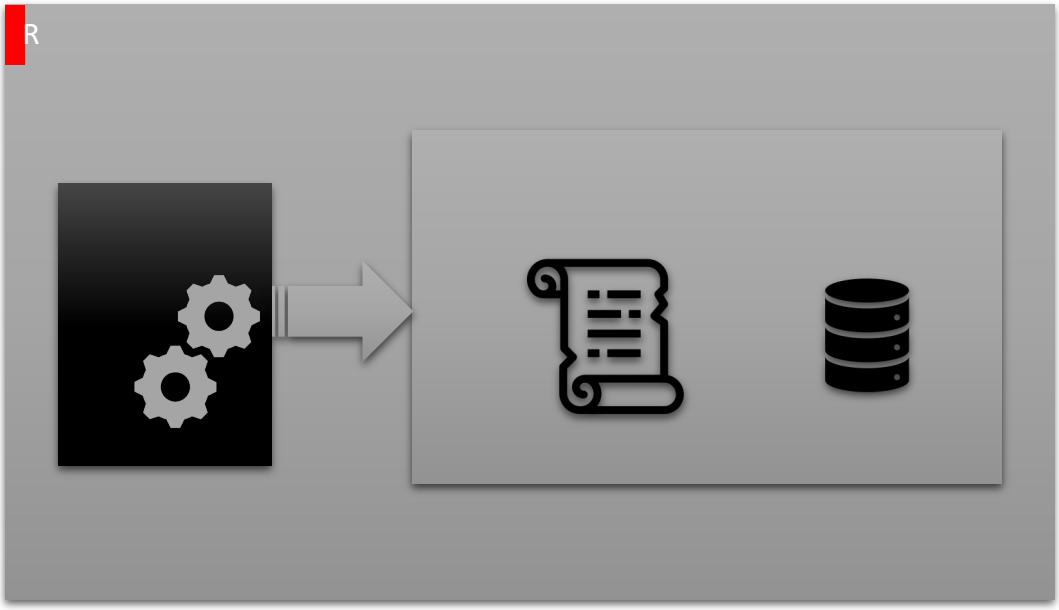
The positioning is the process or kind of checkpoint we use to testify that all the code has been execute properly following the prompt. At this step we set a queue for the next update on the specific zone-node where the transaction has been taking place before generating a chain reaction into all Seth DeFi ecosystem.



THE ZONING PROSSECING FOR PARCELING

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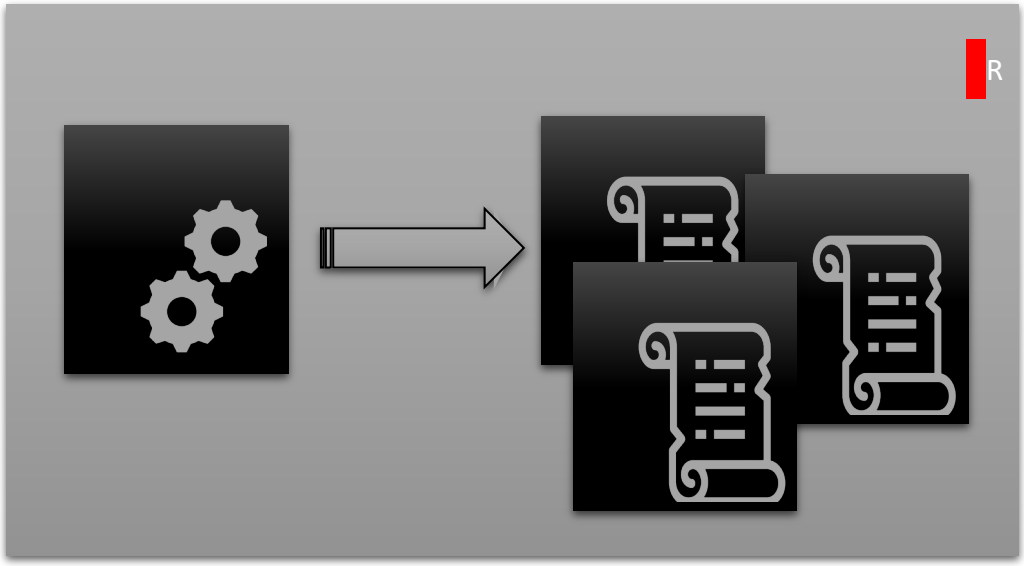
THE 1st parceling:
The SCRIPTING ZONES

At this step the system computes a bunch of calculations then issues inside the second parcel an encrypted certificate ready to testify that a transaction has been made with all the information set up on it. The scripting zone is also where the system generates all resources needs to handle the transaction for the zoning to be settle and effective.



THE PARCELING, LEVEL 1

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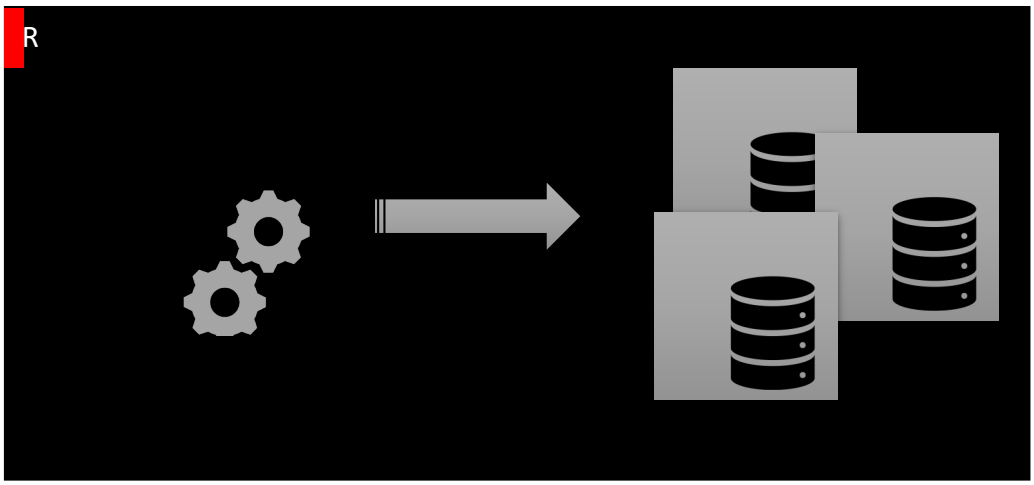
THE 2nd parceling: The Memory slots

It is another set of memory with an assigned amount created by computation the zoning and script allocated space to store all certificates as listed on the transaction.

When the zoning is done, both 2 parcels must be created, and the script will be executing itself following the all processes until creating the all-encryption for transaction then starts a chain reaction to update the whole zone-node throughout the bunker database (Main and Archive) into the blockchain ecosystem.



THE PARCELING, LEVEL 2

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THE BLOCKCHAIN 3.0, TECNOLOGY

The blockchain operate using your HDD or SSD memory space just like a PoC+ Algorithm rather than the proof of work (PoW) like bitcoin or the proof stake (PoS) for Ethereum, we made that choice because HDD or SSD are accessible and produce almost no heat and their consumption of energy is acceptable and can be optimized.

And to be realistic and specific we still in need of CPU and GPU power to process a most of the instructions then the system go back into a standby mode for power and energy saving.

To do all this we have got the proof of presence consensus algorithm (PoP); And the PoP algorithm is different than a PoC+ first by his computational approach and by the way all steps and computations use for all operations needed taking place follow the Zoning, Parceling and Positioning as order of execution for the instructions to handle transaction and other matter.

The great here, is that the code does so at a stated moment then the system goes back into a standby mode for power and energy saving.

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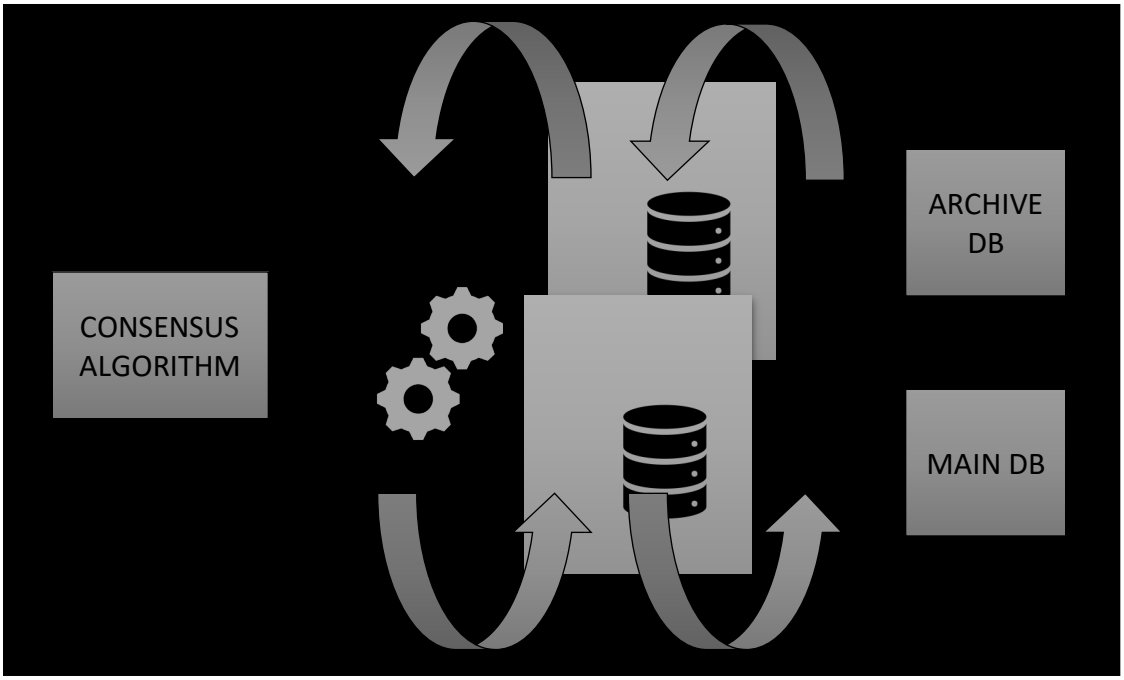
Seth integrates 3 rather than 2 basic operations at the data base level to be able to Create, Delete and Archive all entries; this have been made to support the consensus algorithm processes, a kind of first sub-layer before the PoP consensus algorithm execution take place for the integrity of the blockchain ecosystem.

The PoP algorithm is based on the firsts arrived is the first served based on the quality of the miner (Location, Speed (Time saving), availability, Space…) and will create a reaction on chain to update all other peer miner information, I mean the Blockchain.



THE CONSENSUS & THE SUPPORT

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POP CONSENSUS ALGORITHM

A consensus algorithm is a mechanism that allows users or machines to coordinate with each other in a distributed framework. It must ensure that all agents in the system can agree on a single source of truth, even if some agents fail. In other words, the system must be fault tolerant.

In a centralized setup, a single entity has power over the system. In most cases, they can make changes as they please, there isn't some complex governance system for reaching consensus amongst many administrators.

But in a decentralized setup, it's a whole other thing. Say we're working with a distributed database; how do we reach an agreement on what entries to add? Overcoming this challenge in an environment where strangers don't trust each other is one of the most crucial developments paving the way for the implementation of any blockchain we have got out there. Here, we will define the consensus algorithm as a vital algorithm to the functioning of cryptocurrencies and distributed ledgers or blockchains.

In cryptocurrency setup, users' information is recorded in a database: the blockchain. It's essential that every node maintains an identical copy of the database. Otherwise, you will be soon end up with conflicting information, undermining the entire purpose of the network. Public-key cryptography ensures

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that users cannot spend each other's coins. But there still needs to be a single source of truth that network participants rely on, to be able to determine whether funds have already been spent or not.

For the PoP algorithm, if for example a part of the blockchain is in default, I mean default of information, the system will proceed by vote based on what is present on the blockchain zone-node and the consensus is obtain at 60% minimum, I mean 60% or more is the acceptable percentage for the PoP algorithm to testify the integrity of the system for any matter present on the blockchain network to be solved.

We set up this consensus at the 60% minimum because we believe that 60% or more zone-node (Miners) of all blockchain ecosystem can't be compromised at the same time and that ensure the integrity of the system in an event of trouble at the data base or block registration.

If the test doesn't reach 60% minimum the system will repeat the check on loop until when the condition will be reaching the 60% minimum. As you may know, PoP consensus uses the 60% minimum Zone-Nodes or blocks to make sure that 60% or more of the blocks have got the same information, then we can proceed to the update of all blockchain accordingly.

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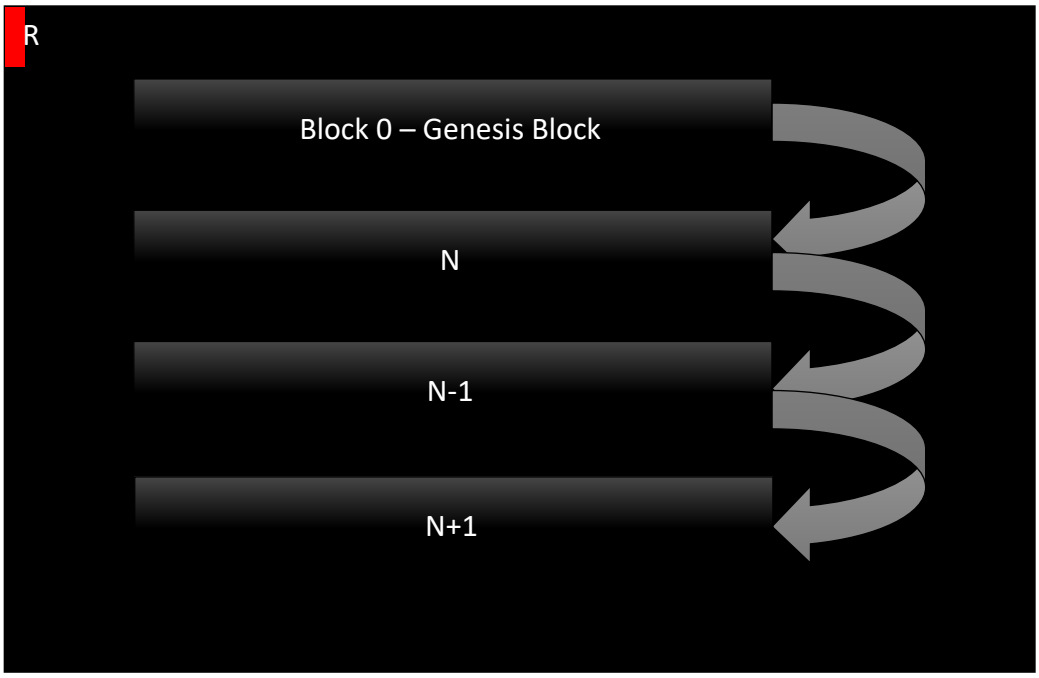
THE DATA-BASE INFRASTRUCTURE

The genesis block will be used for the efficiency of all following block, and the same principle will be used for next one from N, N-1 until N+1 on all databases to be settled as key for safety.



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