Customer USI and Rewards (Public)

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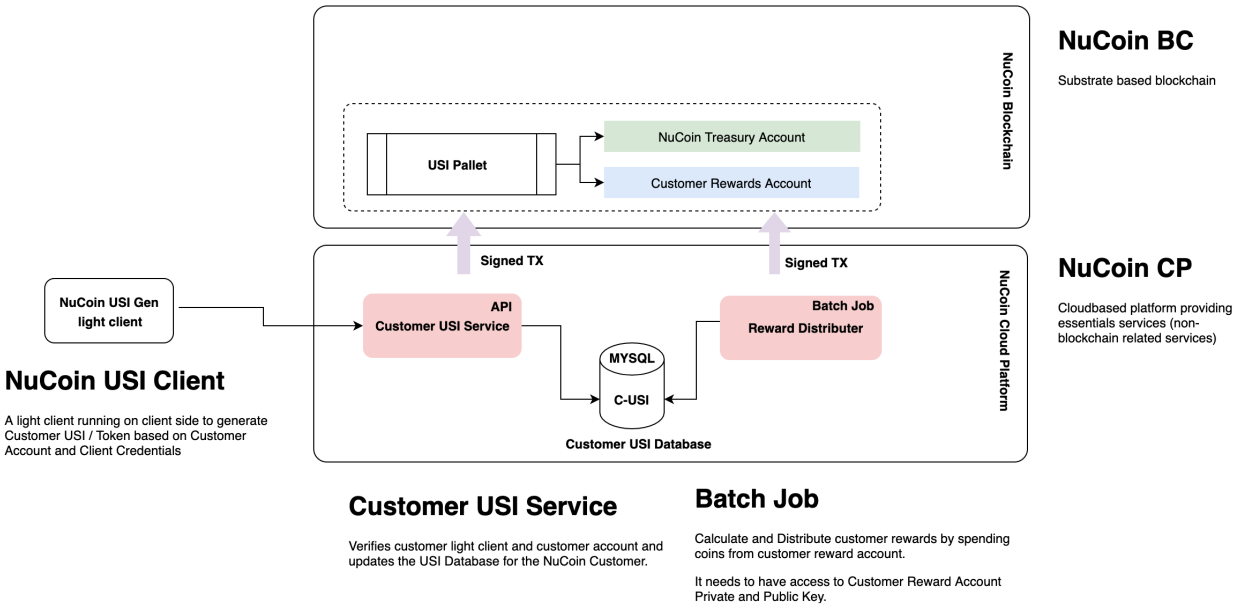
System Generated USI Burning

Design Diagram



Architectural Components

The following components are required to be developed an configured to achieve this goal:

1. NuCoin USI Client (light weight client)
2. NuCoin Customer USI Service (API)
3. Substrate Treasury Module
4. NuCoin USI Module

Nucoin Conditions To Become A Miner

- Need to buy nucoin and transferred to a Staking Trust account
- A miner can withdraw from the staker position by providing written email notice to our mail box admin@nucoin.com.au
    - The staked coins will be refunded into their wallet account
    - Minting function will be removed
    - Their position will become available for the a new member fom the waiting list
- Minimum term for staking is 3 month, you can't withdraw before this period
- Once withdrawn staker received full refund of the staked coins less the transaction fees and therfore forfiets their position a miner (Silver membership only)
- Failure to mint for a minimun period of 25 days a month forfiets the staker's monthly reward
- Failure to adher to the above point for a consequtive period of 3 instances within 6 months or 6 non-consecutive instances within 12 months will forfiets the stakers position and coins

Nucoin System Account Types

The below table is a full representaion of NuGenesis Treasury system

Account Name	Chain Spec Account Name	Account Description	Account Percent	Account ID	Sub-Treasury Account	Account Beneficiaries
Main Treasury This account will receive coins from 2 channels (Refer to the Tokenomics spreadsheet) The max coins retained per day is 345,600 coins	1 - mainTreasury	This account will be the main account where all minted coins will be added from System generated and Customer generated USIs / Coins	100% Allowable coins per day will be **3 45,600** coins which should be generated by the Silver miners		1.1 - techfundTreasury - 10% 1.2 - rewardSystemTreasury - 60% 1.3 - investmentTreasury - 20% 1.4 - airdropTreasury - 10%	
Techfund Treasury	1.1 - techfundTreasury	This account will be used to pay for all the Tech expenses like salaries, equipment and any other IT related costs and it also includes: • Grants • Joint development funds • Technology related funding requirements This account receives 10% of 345,600 = 34,560 coins daily and yearly total is 12,614,400 coins	10%			The NuGenesis technical development team including technical team founders, receive a total distribution of 10% of this treasury received income. The balance are utilised for all tech related requirements (see account description column)
Reward System Treasury	1.2 - rewardSystemTreasury	This account will be used to pay into 3 major sub-accounts This account receives 60% of 345,600 = 207,360 coins daily and yearly total is 75,686,400 coins	60%		1.2.1 - Founder and core management Treasury (PLATINUM) 1.2.2 - Executive Treasury (GOLD) 1.2.3 - Miners Treasury (SILVER)	

Investment Treasury	1.3 - investmentTreasury	This account receives 20% of 345,600 = 69,120 coins daily and yearly total is 25,228,800 coins	20%		1.3.1 Legal Treasury 1.3.2 Infrastructure Treasury 1.3.3 Asset Purchase 1.3.4 Other Investments 13.5 Opex Treasury 1.3.6 Capex Treasury	
Cooperate Airdrop Treasury	1.4 - airdropTreasury		10%			To pay every platform member every 6 months
Founder and core management Treasury	1.2.1 - coreFoundersTreasury		20%			Members included 20 All founders to be paid from this account where each one will have their wallet
Executive Treasury	1.2.2 - executivesTreasury	This account receives 30% of 207,360 = 62,208 coins daily and yearly total is 22,705,920 coins	30%		(Refer to Executive governance structure)	Members included 313
Miners Treasury	1.2.3 - minersTreasury	This account receives 50% of 207,360 = 103,680 coins daily and yearly total is 37,843,200 coins	50%			Members included per year (Refer to Miner spreadsheet for details and breakdown of Tokenomics) **Important: Any unclaimed coins will be transfered into the capexTreasury account**
Legal Treasury	legalTreasury	69,120 as a 100% break down distrubtion This account receives 20% of 69,120 = 13,824 coins daily and yearly total is 5,045,760 coins	20%			
Infrastructure Treasury		69,120 as a 100% breake down distrubtion This account receives 12.5% of 69,120 = 8,640 coins daily and yearly total is 3,153,600 coins	12.5%			
Asset Purchase		69,120 as a 100% breake down distrubtion This account receives 12.5% of 69,120 = 8,640 coins daily and yearly total is 3,153,600 coins	12.5%			
Other Investments		69,120 as a 100% breake down distrubtion This account receives 15% of 69,120 = 10,368 coins daily and yearly total is 3,784,320 coins	15%			
Opex Treasury	opexTreasury	69,120 as a 100% breake down distrubtion This account receives 20% of 69,120 = 13,824 coins daily and yearly total is 5,045,760 coins	20%			

Capex Treasury	capexTreasury	69,120 as a 100% breake down distrubtion This account receives 20% of 69,120 = 13,824 coins daily and yearly total is 5,045,760 coins Capex Treasury can be utilised to create further Treasuries as required subject to scope and expansion	20%			

Staking Treasury	stakingTreasury
	
	(Self funded type account)
						Staking Treasury to hold all staking fund for the lifetime of the staking period.
						
						Rules:
						• Need to buy nucoin and transferred to a Staking Trust account
						• A miner can withdraw from the staker position by providing written email notice to our mail box admin @nucoin.com.au
						  • The staked coins will be refunded into their wallet account
						  • Minting function will be removed
						  • Their position will become available for the a new member fom the waiting list
						• Minimum term for staking is 3 month, you can't withdraw before this period
						• Once withdrawn staker received full refund of the staked coins less the transaction fees and therfore forfiets their position a miner (Silver membership only)
						• Failure to mint for a minimun period of 25 days a month forfiets the staker's monthly reward
						• Failure to adher to the above point for a consequtive period of 3 instances within 6 months or 6 non-consecutive instances within 12 months will forfiets the stakers position and coins

Trust Treasury	trustTreaury Will hold any coins / money that will be required to be held in trust. (Self funded type account)					

Nucoin Miners Yearly Staking Amounts For SILVER Membership

(Refer to Miner spreadsheet for details and breakdown of Tokenomics)

Nucoin Miners Yearly Staking Amounts For GOLD Membership

(Refer to Miner spreadsheet for details and breakdown of Tokenomics)

Nucoin Miners Yearly Staking Amounts For GOLD Executives

All Executive posistion staking amounts are paid by the system Treasury once Executive have been voted out by the Co-operative or their term comes to and end, the staked amount is returned to the Capex Treasury to be re-used and allocated to the next incoming elected Executive

(Refer to Miner spreadsheet for details and breakdown of Tokenomics)

Nucoin Miners Yearly Staking Amounts For GOLD Investors

All Investors posistion staking amounts are paid by the Investors and can be withdrawn when they decide to forfiet their staking position

(Refer to Miner spreadsheet for details and breakdown of Tokenomics)

Nucoin Miners Yearly Staking Amounts For GOLD System Support

All System Support posistions staking amounts are paid by the system Treasury once they have been appointed by Nucoin management team. The System Support team is responsible to help increase awareness and support for the NuGenesis Blockchain but if they fail to achieve KPIs at the descretion of the Nucoin management team, the staked positions can be terminted and handed over to their replacement

(Refer to Miner spreadsheet for details and breakdown of Tokenomics)

Nucoin Minting Process (Coin Generation)

The following table shows the minting process before and after coin sell

(Refer to Miner spreadsheet for details and breakdown of Tokenomics)

Nucoin Treasury Sub-accounts Coin Distribution Process

All generated coins by **System** and/or deposited into Nucoin Treasury Account and is trackable by number of USI generated in the system. Once the coin deposited into the Treasure Account, the system distributes the coins into multiple sub-account (a.k.a Sub-Treasury Accounts).

Nucoin Reward Distribution Process

The Reward System Treasury Account (a.k.a Reward Treasury Account) contains all distribute-able reward available in Nucoin System.

(Refer to Miner spreadsheet for details and breakdown of Tokenomics)

Assuming we have 2 scenarios

1. When we don't change the number of USI generated by the system in the block
2. When we change the number of system generated USIs per block

Scenario - 1

Coin to be burned is calcluated as follows

num_of_syst_usi_per_block * 28800 blocks per day - (num_of_cust_usi_per_block)

Example:

(Refer to Miner spreadsheet for details and breakdown of Tokenomics)

Scenario - 2

Coin to be burned is calcluated as follows

call a function to sum all system USIs - call a function to sum all customer USIs = the coins to be burned

The Coin Miners in The Co-operative

Membership Level	Members	Members Count	Percentage of Coins from Reward Treasury Account
Platinum *	• Nucoin Founders	12	20%
Gold	• Governors • Executives	313	30%
Silver	• Selected Subscribers • and Public	(Refer to Miner spreadsheet for details and breakdown of Tokenomics)	40%
Airdrop	• All members	All members	10%

Triggering The Burning Process

There are 2 ways to look at this concept

1. By using the math mod function
    a. anytime we get a value of 1 when we apply the following formula
        i. **Block Number** Mod 28800 = 1
        ii. As per below table we will always trigger the burn process when we reach the below **block numbers** daily

Day	Block Number
1	28800
2	57600
3	86400

NUC Minting Calculation Scheduler

(Refer to Miner spreadsheet for details and breakdown of Tokenomics)