CLORE BLOCKCHAIN

Proof of holding system

CLORE.AI

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Proof of Holding (POH) is an innovative concept introduced by Clore that rewards Clore coin holders for merely holding their coins in the official Clore wallet. Contrary to other systems that require a certain holding period for benefits to take effect, the advantages of the POH system begin as soon as users participate, irrespective of how long they have been holding their coins. This feature makes POH an instantaneously rewarding system, encouraging more users to take part and enjoy the various benefits it offers.

Verification of ownership

#1

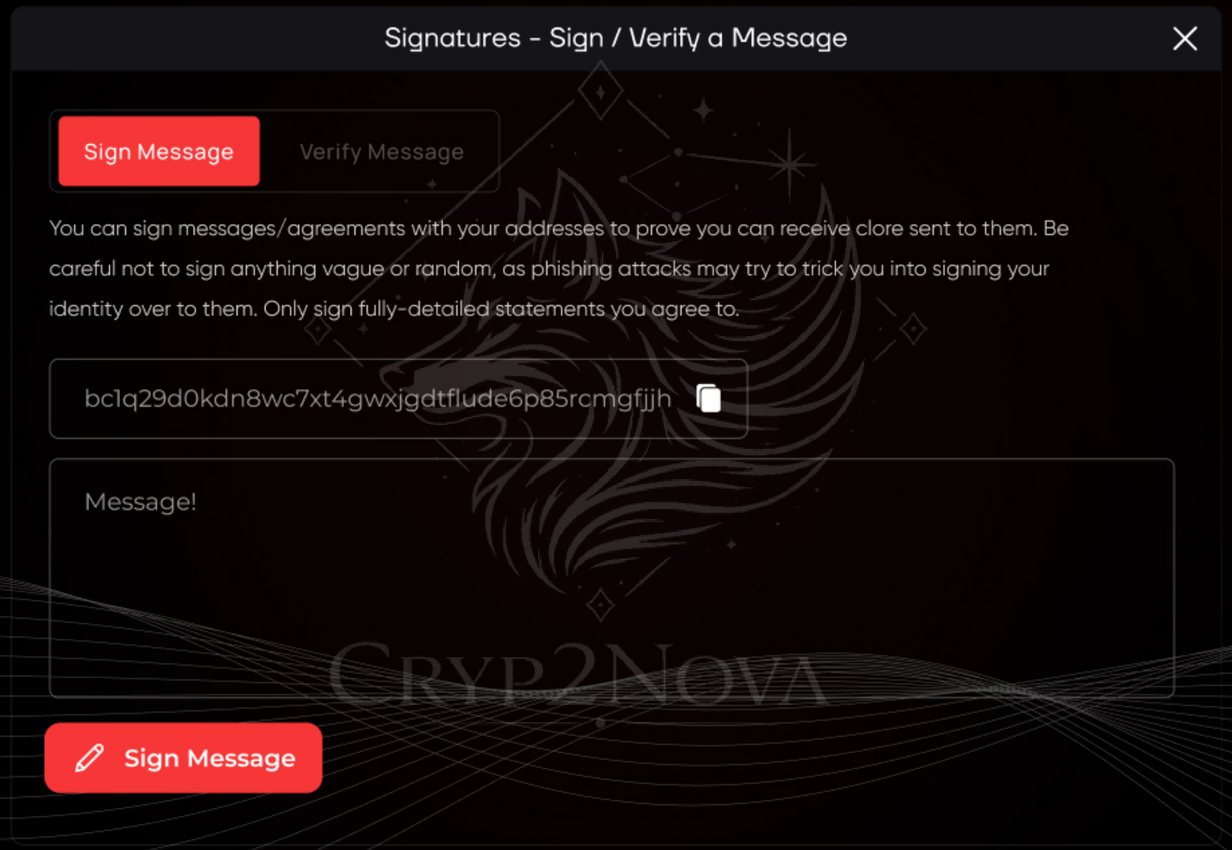
To validate ownership of CLORE Blockchain of specific user it is important to have a secure system, that could be trusted that the user is still holding the desired $CLORE amount. There could be proposed a locking system of $CLORE, but it is unnecessary. A simple signed message with user wallet can be use to verify ownership of the address and then it is really simple to get user's holding amount from CLORE Blockchain. Signing a message is really simple with CLORE Core wallet, just click File -> Sign message



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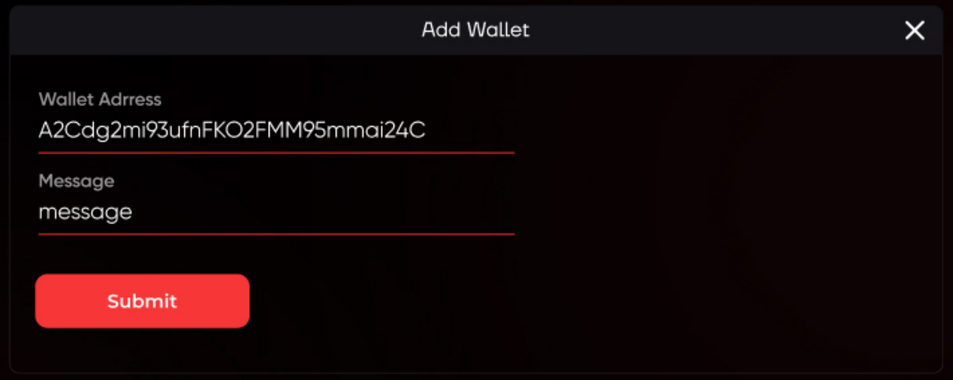
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Now you can select address, that you want to make a prove you are holding. You can write any message you want. Signature will be created



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Each user can have up to 10 wallet addresses under their account, these wallet addresses are constantly monitored for change in balance, so users are able to only use the benefits when they actually hold CLORE Blockchain.



Client benefits

#2

CLORE.AI clients will benefit from holding CLORE Blockchain by reducing the marketplace fees, thus getting the service cheaper Currently it works on the marketplace itself, but in the future there will be discounts for other services provided by CLORE.AI (AI as a service, Network as a service)

For currency: **Bitcoin**

$CLORE amount	On demand fee	SPOT fee
0	10.00%	2.50%
100000+	9.75%	2.46%
200000+	9.50%	2.43%
400000+	9.00%	2.36%
600000+	8.50%	2.29%
800000+	8.0%	2.22%
1000000+	7.50%	2.15%
1200000+	7.00%	2.08%
1400000+	6.50%	2.01%
1600000+	6.00%	1.94%
1800000+	5.50%	1.87%
2000000+	5.00%	1.80%

For currency: **USD**

$CLORE amount	On demand fee	SPOT fee
0	19.50%	-
100000+	19.25%	-
200000+	19.00%	-
400000+	18.50%	-
600000+	18.00%	-
800000+	17.50%	-
1000000+	17.00%	-
1200000+	16,50%	-
1400000+	16.00%	-
1600000+	15.50%	-
1800000+	15.00%	-
2000000+	14.50%	-

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In addition to discounts, Clore frequently rewards users with additional Clore coins if they are participating in the PoH system. Notably, in July 2023, an airdrop added an extra 1.5% for every PoH user. Such airdrops will be a regular occurrence, thereby providing PoH participants with a continuous stream of rewards.

Hosting provider benefits

#2

CLORE.AI clients will benefit from holding CLORE Blockchain by reducing the marketplace fees, thus getting the service cheaper Currently it works on the marketplace itself, but iCLORE.AI hosting providers are renting their machines on CLORE.AI marketplace for some amount of some currency and are earning CLORE Blockchain as an aditional reward. Proof Of Holding is taken into account now for calculating Hosting Provider rewards, so Hosting Providers are motivated to hold CLORE blockchainn the future there will be discounts for other services provided by CLORE.AI (AI as a service, Network as a service).



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To explain the new mechanism of rewarding hosting providers we will need to introduce some variables

OP - Order Price

MFP - Maximum Fair Price (assigned to machines on performance)

FP - Fair Price

FP = OP>MFP?MFP:OP

P - Sum of all prices of running orders

TFP - Sum of all fair prices of running orders

only_price_PoH_difficulty - Difficutly of earning $CLORE considering PoH fp_PoH_difficulty - Difficutly of earning $CLORE considering PoH

howcase in JavaScript how only_price_PoH_difficulty, fp_PoH_difficulty are computed

```
/*
    EXPLANATION:
    PoH_Hosting_providers          - Object with all hosting providers,
                                     that have active Proof Of Holding

    current_provider.total_price   - Sum of prices of all rented servers from
                                     current provider at the moment

    current_provider.total_fp      - Sum of fair prices (FP) of all rented servers from
                                     current provider at the moment

    current_provider.PoH           - Amount of CLORE Blockchain held by the hosting provider
*/
var only_price_PoH_difficulty = 0,  fp_PoH_difficulty = 0,
for (var i = 0;  i < object.keys(PoH_Hosting_providers).length; i ++){
    var current_provider = PoH_Hosting_providers[ Object.keys(PoH_Hosting_providers)[i] ]
    only_price_PoH_difficulty += current_providers.total_price * current_provider.PoH
    fp_PoH_difficulty += current_provider.total_fp * current_provider.PoH
}
```

Calculation of $CLORE Rewards in JavaScript

```
EXPLANATION:
provider_block_reward          - Amount of CLORE blockchain, that is assigned to hosting provider form block reward
OP                             - Price of current order
FP                             - Rental Fair price
TP                             - Sum of all prices of running order
TFP                            - Sum of all fair prices of running order
rew_percetiles.only_price      - Reward part based on rental price (15%)
rew_percetiles.only_price_PoH  - Reward part based on rental price and $CLORE Holding (15%)
rew_percetiles.fair_price      - Reward part based on fair price (25%)
rew_percetiles.fair_price_PoH  - Reward part based on fair price and $CLORE Holding (45%)
clore_holding_amount           - Amount of held $CLORE by the provider

only_price_PoH_difficulty      - described in previous image
fp_PoH_difficulty              - described in previous image

var reward = provider_block_reward * rew_percetiles["only_price"] * (OP / TP) +
    provider_block_reward * rew_percetiles["only_price_PoH"] * ((clore_holding_amount * OP) / only_price_PoH_difficulty)  +
    provider_block_reward * rew_percetiles["only_price"] * (FP / TFP  +
    provider_block_reward * rew_percetiles["fair_price_PoH"] * ((clore_holding_amount * FP) / fp_PoH_difficulty)
```

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Proof Of Holding Update

By CLORE.AI

Updated in May 2022

Initial talk:
Proof Of Holding is a mechanism which give benefits to CLORE Blockchain holders - lowering marketplace fee and it is also taken into account when giving hosting providers extra rewards in CLORE Blockchain by Initial Proof Of Holding Whitepaper

The issue:
As many have pointed out the system wasn't fair for all hosting providers depending on their size. As the same stake amount is used for all provider machines, so hosting providers with multiple machines benefited from the system more that other for example with only one machine.

Solution:
Hosting provider PoH amount (stake) gets splitted between all of their currently rented machines based on their rental price.

Showcase in JS how PoH balance is divided between providers machines

```
// STATS OF THE HOSTING PROVIDER
var    total_provider_poh = 1_000_000
var    provider_machines = [
        {id:1, rental_price:0.0002},
        {id:2  rental_price:0.0004},
        {id:3  rental_price:0.0006},
]

// ASSIGNING PoH AMOUNT TO EACH MACHINE
var    total_provider_rental_price = 0,
       provider_machines_with_poh = []
provider_machines.forEach(element => {
        total_provider_rental_price += element["rental_price"]
});
provider_machines.forEach(element => {
        element["machine_poh"] = (element["rental_price"] / total_provider_rental_price)* total_provider_price
        provider_machines_with_poh.push(element)
})

// SHOW THE OUTPUT
console.log(provider_machines_with_poh)
```

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Advantages of Proof of Holding System

The Proof of Holding system delivers several unique advantages that make participation both rewarding and convenient:



Increased rewards

By maintaining a balance of Clore coins in your possession, you stand to receive bonus $CLORE for leasing your equipment. This means the more you hold, the more you earn.



Service Discounts

Clore coin holders can take advantage of significant savings, enjoying up to a 50% discount on commissions for services offered by Clore.



Optional Participation

Joining the Proof of Holding system is entirely optional. However, it presents an appealing opportunity to maximize the benefits of Clore coin ownership.



Hassle-Free Usage

There's no need to transfer funds to a different wallet. Participation involves merely signing a transaction from your Clore Desktop Wallet, keeping the process straightforward and secure.



No Blocking

Your funds are always accessible. You have the freedom to withdraw and utilize them for exchange or sale at your convenience, ensuring liquidity.



No Penalties

Choose to operate on your terms. If you decide to withdraw funds from Proof of Holding, you can do so without facing any restrictions or penalties.

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