Discount Coin Whitepaper

Version 1.0.7

The DiscountCoin Core Team

February 2018

We, The Discount Coin Core Team, confirm that the work presented in this whitepaper is our own. Where information has been derived from other sources, we confirm that this has been indicated in the attributions.

Abstract

<u>Our mission</u> : Our goal is simple, give the world an opportunity to use crypto-currency everyday to buy items at discounted prices in every stores accepting it. The network will reward shop owners making an effort to propose those prices by giving them more coins as they accept more transactions.

<u>Our plans</u> : Using the emerging technology of Proof-of-stake Masternodes, we plan to reward staking people with coins each time a block is mined.

As a customer, you will be able to buy your items, pay for the restaurant, or go to the cinema with a discounted price.
As a shop owner, you will sell with a discount but you will earn more coins by staking them is your wallet, thus making a profit as if you sold for more than initial price.

<u>Our vision</u> : Our vision is long term based.
We are planning a wide customer usage during first year to build the Discount network and strengthen POS system with an Intial Coin Offering (ICO).
Masternode will be rewarding early adopters by great amount during first year. Then we will promote our technology to local shop owners, still encouraging them to propose discounted prices and earn rewards themselves.
Discount Coin network is designed to give great rewards during at least 20 years !

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Specifications

Basic Specifications

Coin Name : Discount Coin
Ticker : DSC
Coin Type : pure PoS
Algorithm : Scrypt

Detailed Specifications

Max block size : 3 Mb
Block Time : 60 seconds approx
Blocks/Day : 1440
Minimum Stake Age : 24 hours
Coin maturity : 50 blocks
Max Supply : 50,000,000 DSC
Difficulty retarget : every block
Ports : Network 9444 - RPC 9445
Value Tx : low fees
Transaction : Super fast transactions
Eco-firendly : no mining, pure Proof-of-Stake
Stealth addresses : Darksend Private Mixing
Private Encrypted : Desktop Blockchain Messaging
Low Premine : 4% total : 3% for ICO - 1% for promoting

Masternodes

Masternode collateral : 5000 DSC
Block Reward : 75% Masternodes, 25% Staking
Block Reward : Growing first year and staying two-digit numbers for 10 years
Lucky Blocks : 5000 DSC reward on 18 milestones blocks, 16 during first year
Marketcap after ICO : around $98,000,000
Monthly gain after ICO : ~1400$ first month, ~4k$ after 3 month, ~5600$ after 6 month, peak ~8500$ after first year (may vary on market fluctuation)

Proof-of-Stake

Stake your Discount Coins, it's making more Coins !

Proof-of-Stake just like Proof-of-Work is a mechanism that allows the network to confirm transactions and prevent fraud. However, it does not require any resource intensive calculations to be performed. The only requirement is to have some DSC Discount Coins in your balance and keep your Discount Wallet connected to the network. Periodically, your balance will be increasing as new coins are awarded to you for your support of the Discount Network. Interest rate depends on a variety of factors, however, with optimal participation in support of the Discount Network one can expect a consequent return on their investment.

Discount Masternodes

Powering Blockchain Services

Discount Masternodes are computers that are constantly connected to the Discount Network and perform certain tasks allowing DSC Discount to achieve faster and more private transactions. To run the Discount Masternode one is required to have 5000 DSC in their balance, as collateral, and fulfil other requirements imposed by the protocol. For their dedicated service Discount Masternodes are rewarded with 75% of network rewards. Discount Masternodes form a backbone that is a part of a technological mix which powers services and apps of a wider DSC Discount ecosystem.

Eco-Friendly

Pure PoS, no Intensive mining

Unlike many other coins, Discount Coins are not mined through costly proof-of-work mining rigs. It does not consume large amount of electricity and is eco-friendly.

Discount Coin Blockchain parameters

Masternodes

Masternodes are, essentially, a decentralized web of computers that serve the Discount network. Masternodes perform important network functions and receive part of the block rewards. They serve the Discount ecosystem by stabilizing coin supply, processing transactions, and securing the network. Masternodes require 5000 DSC and modest technical knowledge to operate. Any wallet controlling 5000 DSC can set up a masternode.

Obfuscation / Coin Mixing

Discount features Obfuscation, based on CoinJoin but with various improvements over the original, and done via coin mixing in a decentralized fashion facilitated by the network of masternodes. This provides an additional layer of privacy in transactions. While not perfectly anonymous, Obfuscation via node mixing it is far better than the standard bitcoin transaction. For example, all Bitcoin transactions are transparent. For Discount, a nefarious actor would need to control 50% of the operating masternodes to have less than 0.5% chance of de-anonymizing a single transaction that was mixed with 8 rounds of Obfuscation. This important feature provides a high-level of anonymity for DSC users that elect to obfuscate their transactions.

SwiftTX

SwiftTX provides masternodes with locking and consensus authority for transactions. When a transaction is submitted to the network, a group of masternodes will validate the transaction. If those masternodes reach consensus on the transaction's validity it will be locked for later introduction into the blockchain, greatly increasing transaction speed compared to conventional systems (like Bitcoin's 10 minute block times with multiple confirmations). SwiftTX makes it possible for multiple transactions to take place before a block on the network is mined with the same inputs. This system is based on Dash's InstantSend.

Sporks

The Discount network employs the multi-phased fork mechanism known as "sporking". This will enable the network to implement new features while minimizing the chances of an unintended network fork during rollout. Spork changes are deployable via the network and can be turned on and off as necessary without requiring node software updates. This feature is extremely useful and allows the network to react quickly to security vulnerabilities.

TOR & IPV6

Discount Masternodes system allows the user to run their full node or masternode from either an onion address or an IPV6 address. We are working to add full TOR nodes to both strengthen the TOR network itself, and the Discount user experience operating in TOR only mode. A unique feature of TOR masternode support is being able to operate your masternode as a TOR hidden service. TOR nodes enable users with stable internet connections to operate masternodes out of their home network without the privacy implications of revealing their location or the dangers of exposing their home network to the potential for attack or compromise.

Proof-of-Stake Rewards

Proof-of-Stake based blockchain rewards coin holders having a masternode of simply staking coins in their wallet.

Discount Coin has dynamic reward structure. The rewards changes as the block number increases. The rewards are split into 75% for Masternode and 25% for Staking. There is a Single wallet setup option for both staking and Masternode. This means that users do not need to worry about the staking of rewards, as the wallet does both Masternode services and gives rewards for coin staking too. The wallet can be used for multiple Masternodes and all the rewards can be auto staked automatically.

Here is a table describing rewards structure, growing fast first year to boost Discount Coin mass adoption, staying lucrative for many years and slowly declining for next decades.

Monthly gain is calculated for 1 Masternode (5000 DSC), based on ICO average price.

Until block #	Duration	Reward/Block	Monthly gain
10 080	7 days	5 DSC	$1411
20 160	14 days	8 DSC	$2258
43 200	30 days	10 DSC	$2822
89 280	2 month	12 DSC	$3387
129 600	3 month	14 DSC	$3951
174 240	4 month	16 DSC	$4516
217 440	5 month	18 DSC	$5080
262 080	6 month	20 DSC	$6546
349 920	8 month	24 DSC	$6774
437 760	10 month	28 DSC	$7903
525 960	1 year	30 DSC	$8467
1 051 920	2 years	20 DSC	$5645
2 629 800	5 years	10 DSC	$2822
5 259 600	10 years	2 DSC	$565
10 519 200	20 years	1 DSC	$282
Max supply	---	1 DSC	$282

Lucky Blocks

Because getting a discount price is also funny and sometime due to cheer luck, we introduced "lucky block" technology in DSC blockchain.

18 milestones blocks are rewarding 5000 DSC coins when mined. Most of them will occur during first year to encourage early adoption.

Block #	Lucky Reward
8 000	5000 DSC
12 000	5000 DSC
16 000	5000 DSC
20 000	5000 DSC
25 000	5000 DSC
30 000	5000 DSC
35 000	5000 DSC
40 000	5000 DSC
50 000	5000 DSC
60 000	5000 DSC
75 000	5000 DSC
90 000	5000 DSC
100 000	5000 DSC
150 000	5000 DSC
200 000	5000 DSC
500 000	5000 DSC
750 000	5000 DSC
1 000 000	5000 DSC

Roadmap

Done

Development
Discount idea and concept development
Blockchain development and testing
Hash Genesis block
Launching discountco.in website
Releasing Windows and Linux wallets
Starting PoS and Masternodes

Promotion
Announcing on Bitcointalk
Launch ICO

2018 - Quarter 1

Development
Complete Mac wallet
Launch Discount Coin explorer
Continue Android wallet
Continue iOS wallet

Promotion
Organize signature campaign
Organize bounty rewards
List Discount Coin on MN websites
List Discount Coin on exchange after ICO
Increase Discount exposure on social media

2018 - Quarter 2

Development
Complete Android wallet
Complete iOS wallet
Start Android payment application
Promotion

Promotion
Continue Discount exposure on social media
Continue signature campaign
Continue bounty rewards
Marketing team expansion
Promote Discount at conferences
Promote Discount to local stores
Continue exchanges listing

2018 - Quarter 3

Development
Blockchain developer team expansion
Start iOS payment application

Promotion
Continue Discount exposure on social media
Promote Discount at conferences
Promote Discount to local stores

2018 - Quarter 4

Development
Mobile developer team expansion
Implement easy payment to email and phone numbers
Start web wallet

Promotion
Open Discount Coin official foundation
Promote Discount at conferences
Promote Discount to local stores

2019 ...

Development
Start anonymity functions
Zero Coin protocol
Tor integration
Invisible Internet Project (I2P) network integration
Other security features...

Promotion
Worldwide mobile recharge
Worldwide acceptation in local stores

Initial Coin Offering

Why an ICO ?

To help starting the Discount Coin network and provide fair security with consequent amount of Masternodes running, we need to distribute coins to early investors based on demand.

Early investors get coins at discounted prices and can start making Masternodes straight away with their coins (5000 coins collateral minimum).

They can do staking if they have amount greater than 5000 or less than 5000. We are not distributing tokens in ICO, but directly coins.

This is why users can directly start earning before the coin even hits the exchanges.

We are planning on getting the coin on various exchanges to ensure proper liquidity. Cryptobridge, Cryptopia, Coinexchange, Binance, Bittrex, Poloniex and Kukcoin.

ICO Structure

Initial Coin Offering is divided into 4 phases.
As a Discounter community, we reserve best prices to early birds, and 50% of all coins will be sold discounted !

There is a total of 1.5M coins distributed through ICO, not one more. This number represent 75% of the 2M premined coins, the rest will be used for bouties, airdrops, signature campaigns and promotion across social media for youtubers or twitter promoters. The team does only keep 25000 coins (5 Masternodes) for itself. We will reward our job with these 5 masternodes POS rewards.

Phase 1 : 125 000 coins are sold at $0.75, representing a 70% discount on full price.
Phase 2 : price is slowly rising and gets to a 50% discount price. 250 000 coins are sold at $1.25
Phase 3 : you are not an early bird anymore, discount price lowers to 30% and 375 000 coins are sold at $1.75
Phase 4 : opening to wide audience, 750 000 coins are sold at final price for $2.5

Once ICO is finished, 300 Masternodes will be running, the average price for listing on marketplaces is $1.96, generating around $1411 reward first month, climbing to $5000 in 5 month and to >$8000 at 2018 end. Marketcap at ICO average price is estimated at $98M.