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DICE Conceptual Design and Public Sale Whitepaper

DICE Money

Website: https://dice.money

FORWARD-LOOKING STATEMENTS

This document contains certain forward-looking statements concerning future operations, including such things as business strategy and measures to implement that strategy, competitive strengths and goals, growth and operations, and references to possible future success.

These statements are based on certain assumptions and analyses made by the Sender in light of the Sender's experience and its perception of historical trends, current conditions, and expected future developments, as well as other factors the Sender believes to be appropriate. Such forward-looking statements are subject to risks, uncertainties, and other factors, which could cause actual results to differ materially from future results expressed or implied by such forward-looking statements.

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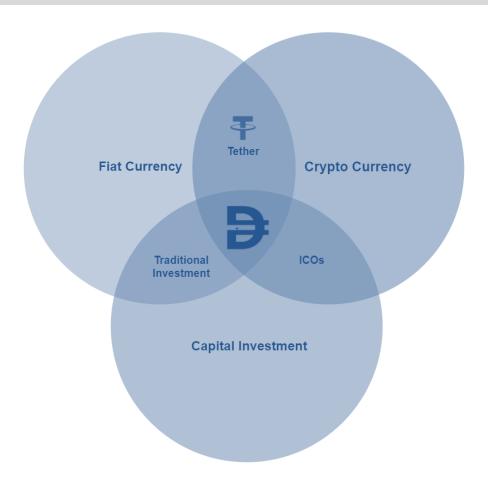


INTRODUCTION

The rise of the cryptocurrencies in the past few years led to increased freedom and new ways to trade, generate and hold equity, and raise funds for business. The last one in its ICO form is quickly becoming a popular choice for seed fundraising in hi-tech start-ups. Cryptocurrencies however extensively suffer from some inefficiencies when it comes to raising funding for companies whose product has a more physical nature such as robotics or other types of manufacturing. To make it worse, launching an ICO/STO campaign has already become a very expensive process for most early-stage companies. The problems come from the fact that cryptocurrencies mostly rely on 'proof-of-work', while for an early-stage company 'proof-of-ownership' would be a much more suitable choice since the nature of the offering is almost exclusively in share equity. Hence, only a few non-IT/non-Fintech companies have managed to adapt the cryptocurrency model and turn it into a successful ICO, while the traditional Angel/VC route is still more prevalent for such companies. In addition, other problems (mainly stemming from the complexity of how modern cryptocurrencies work) limit many businesses from actively using them for fundraising.

This white paper outlines a simple new model, which is not based on traditional blockchain principles, but retains the benefits of cryptocurrencies. At the same time, the model also exhibits features of traditional money, and incorporating new unique benefits.

The proposed model is for a simple, global, decentralised, self-controlling system for fundraising and financial transactions.







OVERVIEW

The core element in the new model is called DICE (**DI**gital **CE**rtificate). DICE is a sequence of 1024 bits which conform to a certain set of rules.

Valid DICE units can be stored and later exchanged for physical goods, services, or digital content in a process called **Trading**.

The process of creating new DICE units is called **Mining**, in which computing power is used to generate a block of 1024 bits which can be considered as a valid DICE.

The DICE economy is not based on a blockchain. Instead, it consists of small clusters of **Miners** gathered around entities called **Operators** - IT hubs whose purpose is to perform validation of DICE units, and to maintain a database of DICE units associated with that particular operator.

Any type of entity can be an operator in the global DICE economy.

Examples may include all business or non-business organisations, a family or even a single individual.

Operators are considered as <u>limited trust parties</u> (only within the scope of DICE associated with the operator), and all other users are considered as untrustworthy parties.

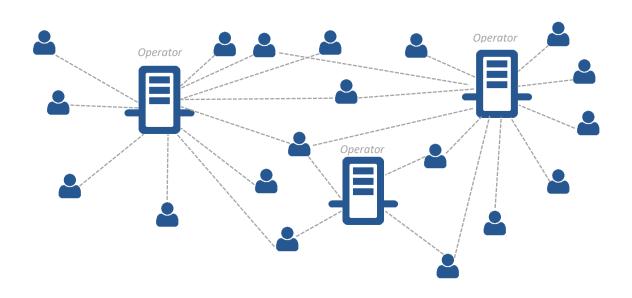
Every DICE unit is associated with only one operator on whose behalf it has been mined. The unit itself, however, is valid in the global economy regardless of which operator it is associated with.

Newly mined DICE are initially owned by the miner who has mined them, and their value is added to the capitalisation of the operator on whose behalf they have been mined.

Therefore it is in an operator's own interest to incentivise having as many DICE as possible mined and circulating in the economy and associated with them as the operator.

Every individual can perform as a miner (optionally), and can mine for more than one operator as well.

Operators are completely independent from each other, but DICE units are global.







BUSINESS EXECUTIVE SUMMARY

DICE - a social revolution in finance

DICE (abbreviated from Digital Certificates) is a new cryptocurrency and a universal platform for raising funds through **crowd-supported cryptocurrency mining**. It has properties of both the presently existing cryptocurrencies and traditional money, and also creates a brand new funding route for any business.

DICE introduces the "Cluster Model" economy, based on a large number of unconnected peers (called "operators") all working within a singular global ecosystem. Each of those network peers is in a way a small country of its own, and the DICE miners supporting it, are its virtual citizens.

"Investment Mining" is another breakthrough that the cluster model provides. Miners own their new DICE, but the capitalisation of the respective operator increases with the overall mining production. This makes an investor out of every miner, and the choice of who will be the operator they mine for, is a completely personal decision. Thus, every operator is in fact a self-funding social structure built around a cause or business venture.

Unlike the blockchain, DICE operates on a different principle, much closer to the way deals in the real-world work - a secure and confidential virtual handshake verified by a witness.

The DICE model:

- Is fully customisable at every single operator's level for full transparency or full privacy;
- may be used in both online and offline transactions
- lacks the need for special software wallets

DICE is well suited for a shock-free adoption as the new everyday money - not dissimilar from the money we all use today, but updated for use in the digital age. We invite you to read through this document which outlines the DICE model, covers of the ecosystem participants, and our business plans for a public sale and launch of the network.

Konstantin Dimitrov Anthony Johnson Dilip Chandar

Co-Founder Co-Founder Co-Founder





REVOLUTIONARY MODEL

True Decentralisation

DICE lacks a single ledger present in the typical blockchain architecture. Instead, there are as many ledgers as there are operators in the global ecosystem - some of them public, others private.

Reinforced Security

A new communication protocol which makes it practically impossible to hack and steal DICE. In addition to that the physical nature of DICE requires having a copy of the actual data structure.

Offline Mining

DICE can be mined safely without the fear that someone else is secretly using your resources. Offline mining also opens the door toward interesting mobile fintech products.

Speed and Scalability

The model built on a large number of unconnected small nodes allows maximum parallelisation and unlimited scalability. Each node handles only a small fraction of the overall traffic.

Absolutely Free

The concept of transaction fees is absent in the DICE model. Incentives to both sides come from elsewhere, not fees.

Social Economy

One of the biggest advances in DICE is the idea "investment mining" – a socially-uniting opportunity to raise funds for a specific business or cause while mining for yourself at the same time.

No Middlemen

A true "peer-to-peer" model without need for exchanges or special wallets.

Deterministic and Predictable

DICE is not meant to be a speculative asset. It is designed to replace the traditional money in a shock-free implementation.

OLE - The New "Operator Launch Event"

The ever-increasing costs of public offering have created new barriers in front of fresh-starting businesses. Large number of "consultants" have managed to insert themselves between a new business and its potential market. DICE creates a new opportunity "Initial DICE Offering" to raise without the upfront costs associated with other models.

The entire OLE process and model of work are explained in an additional document.

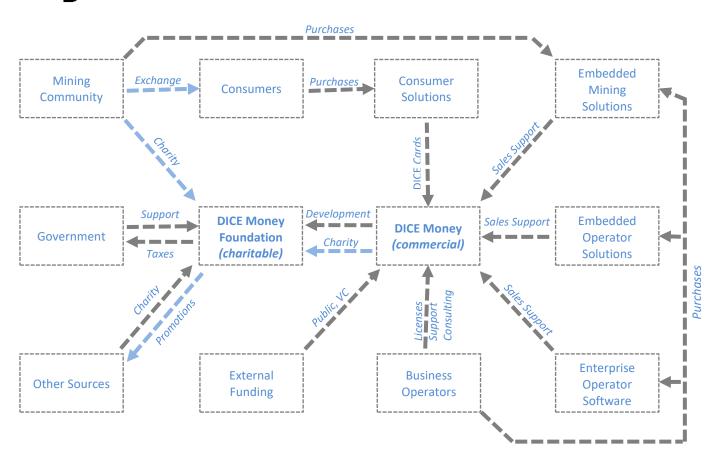




BUSINESS OVERVIEW

Business Model





DICE Money will have allocated budget for supporting the work of DICE Money Foundation.





PROGRESS AND ROADMAP

July 2017 Initial concept developed and an early version of the technical whitepaper written November 2017 Initial alpha mining and operator software; first valid units; core team formed January 2018 Team growing and traction building; further improvements in the protocol for better security February 2018 DICE Money Ltd officially registered; internal tests with beta version mining and operator solutions **March 2018** Demo operators online and early software available to users July 2018 Existing to date DICE system code released for wide community support August 2018 Public awareness campaign and pre-seed funding round January 2019 Embedded operator and end-user mining solutions commercially available February 2019 DICE available as tradeable stock June 2019 **DICE Card prototypes** November 2019

Enterprise solutions and partnerships for DICE integration and support



more to come...



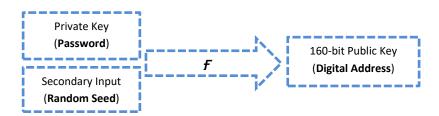
TECHNICAL OVERVIEW

Digital Address

A digital signature is a sequence of bits, used to identify whether someone is who they claim to be. DICE authentication is handled by asymmetric encryption (1) of all messages between users and operators.

Every miner or operator has their own pair of keys - a public key and a private key. The public key is what the entire network knows (i.e. it's publicly available), and the private key is what only the miner/operator know (i.e. it's completely private).

During initial registration of the key pair, the user chooses a password which is private. That private password is then used to generate a 160-bit public key, which serves as their personal address and identity in the DICE economy.



Data encrypted with the user's public key can only be decrypted with the same user's private key, which only they will know.



Therefore a network peer who initiates communication with another peer always encrypts outgoing messages using the receiver's public key (i.e. personal address) and will be receiving all incoming messages encrypted using their own public key.

Whenever necessary, a DICE digital address can be represented as <u>40 hexadecimal</u> characters grouped in eight 5-digit blocks for clarity:

XXXXX - XXXXX - XXXXX - XXXXX - XXXXX - XXXXX - XXXXX





Structure of a DICE Unit

A DICE unit is a binary block of 1024 bits (128 bytes) structured as follows:

bit 1023 bit 0864	Constant	160-bit Operator Address	★ DIO
bit 0863 bit 0704	Constant	160-bit Miner Address	E #
bit 0703 bit 0696	Constant	8-bit Threshold Level	Headeı
bit 0695 bit 0664	Variable	32-bit Timestamp	~
bit 0663 bit 0000	Variable	664-bit Payload	

The first four fields

form the 360-bit

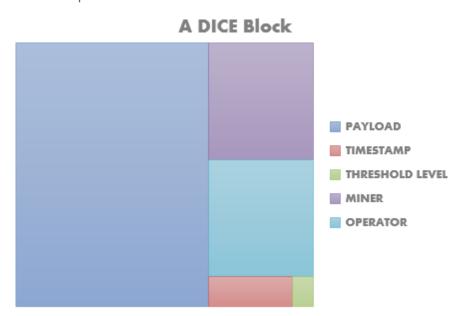
"DICE *Header*" which is sent to the operator during validation claims.

Fields "Operator" and "Miner" are always unchanged in the scope of a particular miner who is mining on behalf of a particular operator.

The 8-bit "*Threshold Level*" field is set by the operator <u>at the moment of generation of the DICE</u> and defines a minimum number of bits required to satisfy the validation condition for a newly mined unit.

The 32-bit field "*Timestamp*" is automatically filled <u>at the moment of generation of the DICE</u> with real-time current time and date expressed in Swatch Internet Time (2) @beats cumulatively passed since 00:00:00 on January 1st, 2001. One @beat is a period of time equivalent to 1/1000 of a day (1 minute and 26.4 seconds or 86.4 seconds).

The data contained in the fifth field "*Payload*" is freely adjustable by the miner during the process of mining. This is the "secret" data of which the operator is not aware.



Units are distributed in their raw form (i.e. the original 1024-bit block which produces a hash conforming to the needed validation condition). However, the operator who validates the DICE knows <u>only the header and the hash from the payload</u>, but not the original payload data.

A DICE unit can exist in the form of digital content (binary file, hex file, QR code), or as a physical printed note (QR code or text).





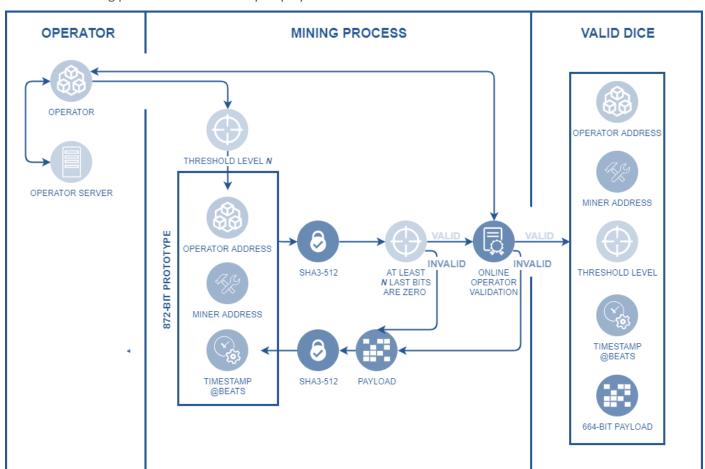
Mining

The process of mining generates new DICE units. Newly mined units are initially owned by the miner who has produced them. The miner can then exchange them for physical goods, services, digital content, other currencies, or other DICE units.

When generating a valid DICE unit, the goal is to end up with a 1024-bit block of data consisting of the fields defined in the DICE structure, such that when SHA3-512 (3) is executed on the DICE payload, and the resulting 512-bit output is then added to the original DICE header, a new hash produced from this newly built 872-bit "prototype" block will have a certain number or more of its least significant bits, all equal to 0.

Therefore a miner's task is to produce a 664-bit "Payload" at a certain moment of time (the "Timestamp") in order to achieve successful hashing of the entire 1024-bit proposed data block, and then to have that hash confirmed by the operator.

The overall mining process is schematically displayed below:



From the diagram above it can be seen that a proposed new DICE unit is formed from constant Operator and Miner addresses, a constant Threshold set by the operator, a real-time Timestamp, and a hash from the Payload generated by the miner.

The initial verification is performed locally by checking whether the result of SHA3-512 function has N or more trailing zeros. If this condition is not satisfied, the process repeats with a new Payload value.





If the condition for the minimum N trailing zeros is satisfied, the resulting 872-bit "Prototype" is sent to the operator for validation.

The operator would normally not honour ownership claims for new DICE units with a mining timestamp older than a pre-set limit. The timestamp can also be used by the operator in the valuation process to incentivise mining of DICE units within a specified period of time.

For details about the messages exchanged during this process refer to the section title 'Message Protocol'.

Threshold Level

In order for an operator to accept a new DICE unit, the first condition is that the hash of the DICE unit needs to have a certain minimum number of its least significant bits all set to zero.

This value, together with the DICE timestamp, determine the value of a DICE unit.

As of this document's date, the <u>default</u> threshold level is N=40

DICE protocol means that a unit can be valued only within the (N-10 ... N+10) range.

Therefore, for N = 40, the absolute acceptable minimum threshold would be $N_{min} = 30$, and the absolute maximum would be $N_{max} = 50$.

There is no defined maximum, however since the threshold level is stored in 8-bit space, the theoretical maximum threshold would be 256 (stored as value 0 in the field).

Operators set the individual threshold level according to the stage they are in, and to the mining niche they are targeting. Setting the threshold too low would result in the mining of a large quantity of low-value DICE units. Setting the threshold too high would result in difficult and power-intensive mining generating only a small quantity of high value DICE units.

Unit Valuation

The value of a DICE unit is calculated as:

$$v = (k * 2^{(b-z)} * 2^{(z-N)}) \wedge 2^{(Nmax)}$$

Where **v** is the value of the unit, **b** is the number of trailing zero bits in the hash, and **z** is the threshold level permanently set in the DICE unit.

N is the default threshold, N_{min} and N_{max} are respectively the N-10 and N+10 limiting values.

The parameter k is a correction factor individually set by the operator for units with specific timestamps. The default value for k in all non-exclusive cases is 1.

In order for a DICE unit to be considered valid, it needs to satisfy the condition $\mathbf{b} \geq \mathbf{z} \geq \mathbf{N}_{\min}$.

If a valid unit is produced but $b > N_{max}$ - the unit is still valid, but its value is capped at $2^{(N_{max})}$.

Therefore a unit generated at the default threshold level N, and having exactly N trailing zero bits, will have the value of one DICE.





Since units are generated in a binary way, the valuation formula always generates a result which is a number in powers of 2, for units with value 1 or greater.

The same formula can also be expressed in a different form to simplify the calculation of units with values less than 1 (i.e. threshold level z<N):

$$v = \left(k * \frac{2^{(b-z)}}{2^{(N-z)}}\right) \Lambda \ 2^{(N_{max})}$$

By applying the absolute minimum acceptable threshold values N_{min} and N_{max} , the formula shows that the smallest possible fraction of a DICE unit is $\frac{1}{1024}$ and the highest single DICE value is **1024**.

Since fractions are binary, not decimal, a proposed extension to the IEC prefixes $^{[6]}$ for a $\frac{1}{1024}$ fraction is "mibi", therefore 1 DICE = 1024 mibiDICE, and 1 kibiDICE = 1024 DICE.

Trading

Trading in the DICE economy is based on ownership claims rather than active transactions. No ledger of transactions exists anywhere in the network. The process can be described in a few generalised steps:

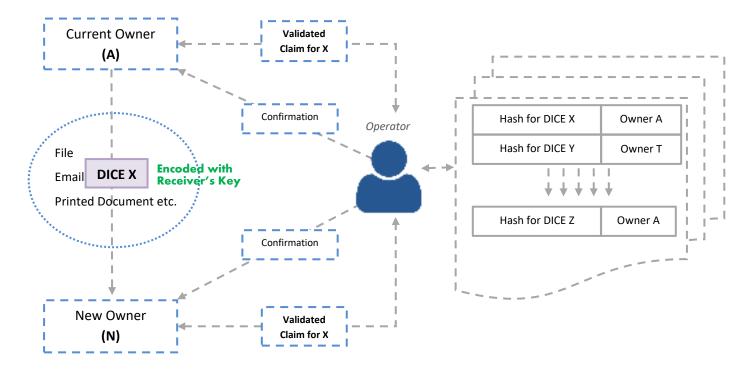
- Current owner provides DICE units to the new owner. This could be in the form of digital content (binary file, email), or physical form (paper note, file storage device).
 Units are encoded with the new owner's public key.
- 2. Current owner places a claim for new ownership to the operator who handles the particular DICE unit used in the trade, providing the hash of the unit.
- 3. New owner verifies the DICE, and also places a claim for new ownership to the operator of the DICE, providing the hash of the supplied unit.
- 4. Operator verifies the validity of the unit, and the two claims, and stores in its private database the address of the new owner as the registered owner of the DICE with the provided hash.
- 5. Operator sends a response message to both parties informing them about the change of ownership of the unit.

This is repeated for every DICE unit involved in the trade.





The process for one unit can be visualised in the following diagram:



It can be seen that a successful transfer of ownership can only occur when the following conditions are met:

- 1. The current and the new owner both possess the actual DICE unit in its raw form.
- 2. The unit is a valid DICE unit.
- 3. The unit is known to the operator.
- 4. The operator recognises the current owner as the legal owner of the unit.
- 5. The current and the new owner have both informed the operator about the upcoming change of ownership of the DICE unit providing a matching hash generated from the DICE.

It is important to note that between trading parties DICE units are exchanged in their raw form, while claims put to the operator are only made using the hash of those units.

Ownerless DICE

Under certain circumstances, an owner of a DICE unit may decide to release it on paper in a form similar to a banknote. In such cases, the new owner of the unit is not known in advance until an ownership claim is put in front of the operator.

To achieve this goal, the current owner needs to release the DICE from ownership, which in the operator's database invalidates the unit and marks it as ownerless. From this point on the operator will assign ownership of the DICE to the first valid claim that comes with it.





In addition to that, more than one copy of the same ownerless DICE may exist. For example, the original owner may have released a number of copies of the same DICE for the first who makes a valid claim of ownership.

Ownerless DICE are distributed in the form of the full unencrypted 1024-bit data block. They hold no value until a successful claim of new ownership is confirmed by the operator.

Trade with ownerless DICE is less secure and a new owner always needs to check with the operator if the actual traded DICE is, in fact, ownerless at the time of the exchange.

The Operator Role

Every DICE unit is associated with a business entity called the "Operator" who serves as guarantor over the validity of the DICE units associated with the operator (only), and also serves as executing authority in ownership claims for associated DICE units.

The operator keeps a database with the hash for every known associated DICE, and the digital address of its current owner, and reacts to validation messages and claims of ownership sent from external users.

If an operator happens to cease operation, it would not affect the DICE economy beyond the units associated with that single operator.

Operators do not keep raw DICE units in their database, but only the prototypes.

<u>The DICE economy operates on fee-free trade</u>. Miners have the intrinsic motivation to generate units which can then be used in return for goods or services. The motivation for an operator comes from the fact that all DICE mined on its behalf can be used as collateral in future deals. Therefore an operator performs its role in return for the miners' efforts to generate DICE on its behalf.

Message Protocol

Users can send messages to operators during trade operations to inquire about the validity and value of DICE units, or to claim ownership over DICE units.

During a claim, both user parties need to provide the new owner address. If the claim has been successful, the response will be stating the new owner's address as "*Current Owner*". For newly mined DICE the claim is made by the miner only.

In order to get the operator to accept any claim, a challenge is first given to the claimer. The challenge aims to prove that the claimer has the original data which produces the claimed hash.

The challenge uses asymmetric encryption. ^[1] The original 1024-bit DICE block is known to the claimer only, and is treated as the private key. Using the DICE, a separate 512-bit public key ("*Challenge Key*") is generated and supplied to the operator.

The operator generates "a secret message" in the form of a random 512-bit block, which is then encoded with the challenge key. The encoded message is returned back to the claimer, who can decode it only if he/she possesses the original DICE block.

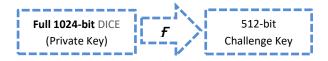




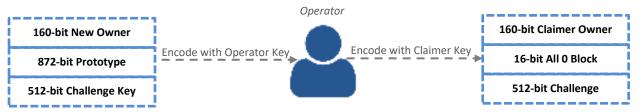
The operator will expect to receive a new claim with the originally provided secret message in its decoded form. Only after comparing the response with the actual content of the challenge, the operator can assume that the claimer does indeed have the claimed DICE block.

The operator will not respond to any messages containing invalid information, or of an invalid length.

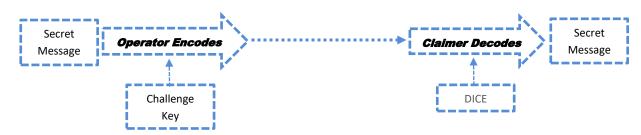
Step 1 (claimer generates challenge key)



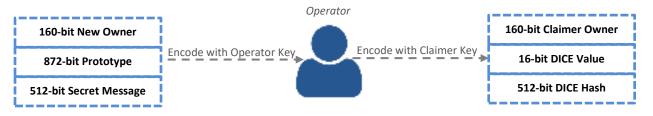
Step 2 (initial claim → receive challenge)



Step 3 (claimer decodes operator challenge)



Step 4 (respond to challenge → confirmation from operator)



The 16-bit "DICE Value" field holds the value of the item in bits 14...0, and bit 15 is a 1/x flag.





If the claimer passes the challenge:

- 1. If the operator has no record of the DICE hash in the claim, and the field "New Owner" contains data (i.e. it's not all set to zero), a new record in the database is created, and the address provided in "New Owner" is set as owner of the unit. This is the case of newly mined DICE.
- 2. If the operator has no record of the DICE hash in the claim, and the field "New Owner" is all set to zero, it is considered as a validation/valuation claim only, and no further action is taken by the operator.
 - a. The operator is aware of the DICE: the field "Current Owner" contains a valid address.
 - b. This is DICE unknown to the operator: the field "Current Owner" contains all zeros.
- 3. If the claimed DICE hash is already known to the operator, and the field "New Owner" contains valid data (not all zeros), a separate claim about the same DICE, sent by the new owner is expected to conclude the trade. The new owner becomes the registered owner of the unit.
- 4. If the claimed DICE hash is already known to the operator, and the field "New Owner" contains all zeros, the DICE is removed from the operator's database and released as ownerless.

Wallets

DICE does not require any special type of digital wallet.

A "wallet" can take any form of storage where units are kept. That could be for example a USB flash drive (for files), an inbox (for emails), or a physical wallet (for printed notes).

In any case, a valid DICE unit is considered only a full 1024-bit block which can be validated successfully with the associated operator.

Operator Launch Event (OLE)

The entire OLE process and model of work are explained in an additional document.

The Operator Launch Event can provide an easy way for a business to raise funds for its operation. In comparison with any other methods of fundraising such as ICO or IPO, expenses associated with OLE are minuscule and mostly come down to the cost of the operator's server equipment and supporting software.

OLE is how a new operator enters the DICE economy.

When a business initially executes an OLE and becomes an Operator, there are still no existing DICE associated with the new operator. The business needs to encourage users to start mining and thus generating value. Every new mined DICE that enters the economy, is added to the valuation of the operator. Then by paying in DICE associated with the operator, a miner can acquire certain equity in the business, production, or service.

By using the creation timestamp in DICE, an operator may define premium-value units to be mined within a specified period.



Summary

- Self-supporting decentralised infrastructure based on clusters of individual users and small business entities.
- Model operating on static proof of ownership and claims of new ownership, and unaffected by multiple copies or double spending.
- Intrinsic tolerance of paper and unencrypted tokens.
- Introduction of "Limited Trust Parties" with reduced scope for trustworthiness.
- Completely fee-free while all parties are still incentivised.
- Every miner is also an investor in a business of their own choice.
- Mining becomes the main value-generating asset for a new business.
- Introduction of OLE as new social fundraising platform.

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YOU UNDERSTAND AND AGREE THAT WE DO NOT OWE ANY DEBT TOWARDS YOU WITH RESPECT TO TOKENS AND WILL HAVE NO OBLIGATION TO BUY YOU BACK ANY TOKENS YOU PURCHASED OR TO REFUND YOU IN ANY WAY, NOR TO ENSURE YOU ANY ADVANTAGE OR DISCOUNT WHATSOEVER IN RELATION TO, OR IN EXCHANGE OF, TOKENS YOU PURCHASED.

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