

WHITE PAPER

# PAYCASH ECOSYSTEM (PC)

BASED ON EOS BLOCKCHAIN



## THE EXISTING GLOBAL FINANCIAL SYSTEM

enables virtually instantaneous and unobstructed regional payments of physical persons for goods and services via various payment systems.

AND THAT IS BASICALLY ALL THAT IT ENABLES...



### SWIFT TRANSFERS BETWEEN COMPANIES MAY TAKE UP TO A DAY AND EVEN MORE –

in case such transfers do not lead to questions from compliance and do not fall on days-off or bank holidays.



### LOCAL PAYMENT SYSTEMS

are not capable of enabling transregional payments of physical persons for goods and services that they want to purchase. **Cash and all risks associated with it is returning into daily use...**



### EXISTING PAYMENT SYSTEMS RISK LOSING CLIENT FUNDS

due to various attacks and unauthorized access... Thus, they are restricted by **limits that do not allow the clients to use their funds** in the volumes that they require.



### MAJOR CENTRALIZED CRYPTO-EXCHANGES

not only **block client accounts**, but collapse like a house of cards, **stealing client funds** without giving it second thought.



### ISSUERS OF STABLECOINS FREEZE THEM

on compromised **wallets** at first request, without any remorse.



### BANKS DO NOT ALLOW CLIENTS TO MAKE DEPOSITS

using leading fiat currencies or if they do, these **deposits have negative yield...**



### PURCHASE OF CRYPTO FOR FIAT (AND VICE VERSA) REQUIRES KYC

which is hardly a way to purchase goods and services freely.



### LOSS OF CRYPTO-WALLET PRIVATE KEY

(for example when changing the mobile device) **leads to impossibility of retrieving the funds.** Same goes true for fiat funds of a deceased close one, in case one does not know



## PAYCASH ECOSYSTEM (PC)

HAS IDENTIFIED SOLUTIONS TO ALL OF THESE PROBLEMS

# ECOSYSTEM DESCRIPTION

**PayCash (PC)** — is a decentralized financial ecosystem developed on the basis of smart contracts that are not under control of any party and are deployed on EOS – the new generation of blockchain.

One may use the ecosystem either directly – by interacting with its smart contracts on the blockchain, or – for convenience – by using any EOS compatible wallet.



## PAYCASH FACILITATES CONFIDENTIAL SALE AND PURCHASE OF CRYPTOCURRENCIES

provides an opportunity to invest, safely keep and inherit funds.



## PAYCASH

is among other things – a **universal decentralized p2p-based crypto/fiat gateway (exchange)** based on a smart contract with an **easy and convenient functions for entry / exit into the world of cryptocurrencies.**



## ANY USER MAY REPLENISH HIS PAYCASH

(hereinafter PC) **wallet with cash money, p2p transfers** of non-cash funds to a **payment card**, through the system's acquiring service or with **cryptocurrencies without any registration or KYC formalities.**



## PAYCASH IS A DECENTRALIZED CURRENCY EXCHANGE PLATFORM

based on EOS blockchain, **based on AMM** (Automatic Market Maker) principles.



## ITS USERS TO ACQUIRE INCOME FROM INVESTMENT

into liquidity pools.



## PAYCASH — GUARANTEES COMPLETE CONFIDENTIALITY

and **impossibility of expropriation, confiscation, taxation, deduction, one-sided write-off, theft or arrest of funds** that are within its digital space – all due to absolute **impossibility of influence of any legal or physical persons** on the smart-contracts of the platform.

**Access to user account is only possible for the user who has the control of the private key.**



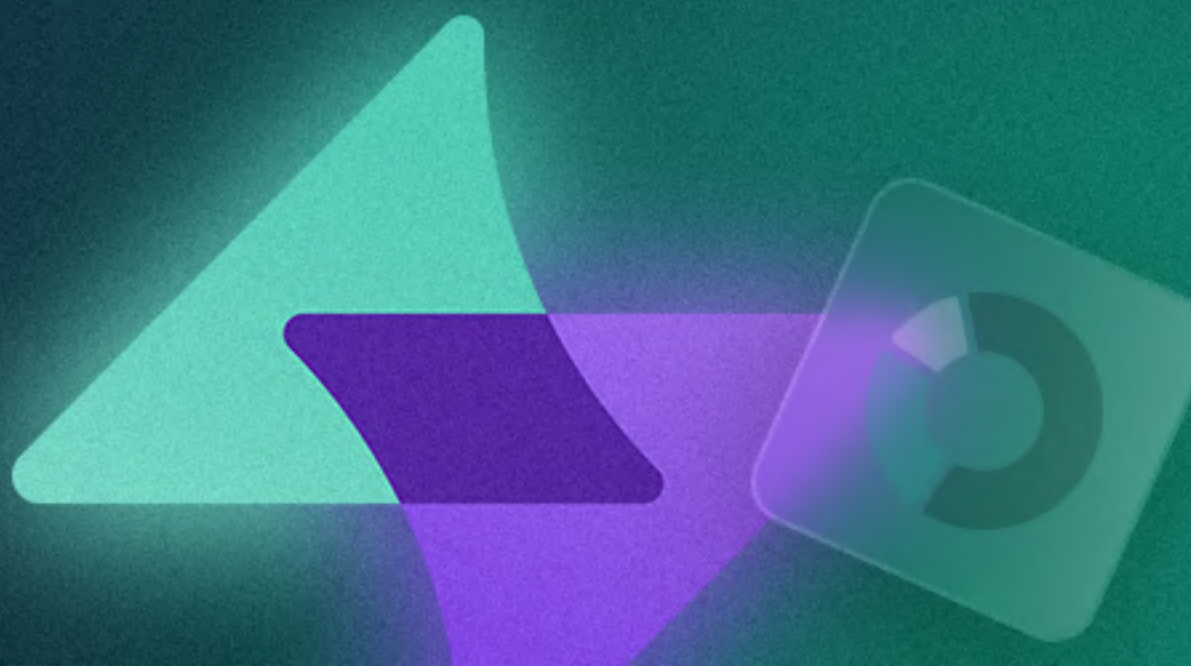
## BUILT INTO THE PAYCASH ECOSYSTEM IS A FULLY CONFIDENTIAL CRYPTO-MESSENGER

that is **not under control of any third party. Only the sender and the recipient of messages have access to them.** It is not possible to access the chat without having access to the relevant private key.



## TO MAKE SURE THE USERS' FUNDS ARE SAFE

**the user has to safely store the private key to his EOS wallet that will guarantee his ability to resume access in case of change or loss of mobile device.**



# PAYCASH ECOSYSTEM TOKEN INFRASTRUCTURE

All native PayCash tokens may be transferred among user wallets without any commissions and without any volume limitations.

All native PayCash tokens may be subject to inheritance by relatives and close ones according to the parameters set by the users.

In addition to that PayCash works with any EOS blockchain tokens (including USDT and EOS).

NATIVE TOKENS OF PAYCASH ECOSYSTEM ON EOS BLOCKCHAIN ARE:



**MALINKA (MLNK)**



**LIQUIDITY TOKENS LQ**



**USDCASH STABLECOIN**



**LIST FAMILY OF TOKENS**



**RUBLES STABLECOIN**



## MALINKA (MLNK)

An EOS blockchain based cryptocurrency, that the users receive as reward for providing liquidity into pools for exchange and emission of currencies.



## USDCASH STABLECOIN

Stablecoin, cryptocurrency that is hard-pegged to the US dollar (1:1) and is reliable backed by the highly-liquid funds of a special emission pool (including USDT tokens), total value of which is significantly higher than the emission cost of USDCASH.



## LIST TOKEN FAMILY

A number of cryptocurrencies on EOS blockchain that are backed by residential real estate in the megapolises of the world.

1 LiST equals one square meter (for example LIUAIEV is a token that is backed by the average value of tokenized square meter of usage-ready residential real estate unit in the city of Kiev with a total area not exceeding 75 square meters).



## RUBLES STABLECOIN

a stablecoin that is fully backed by the fiat ruble, deposited by physical or legal persons into commercial banks. Emission of RUBLES stable coin is performed by an EOS blockchain smart contract.

Each RUBLES token emitted into circulation is backed one-to-one by the respective unit of fiat currency (one RUBLES equals one Russian ruble) stored in a deposit of emitting operator LiST Properties Ltd. In a commercial bank.

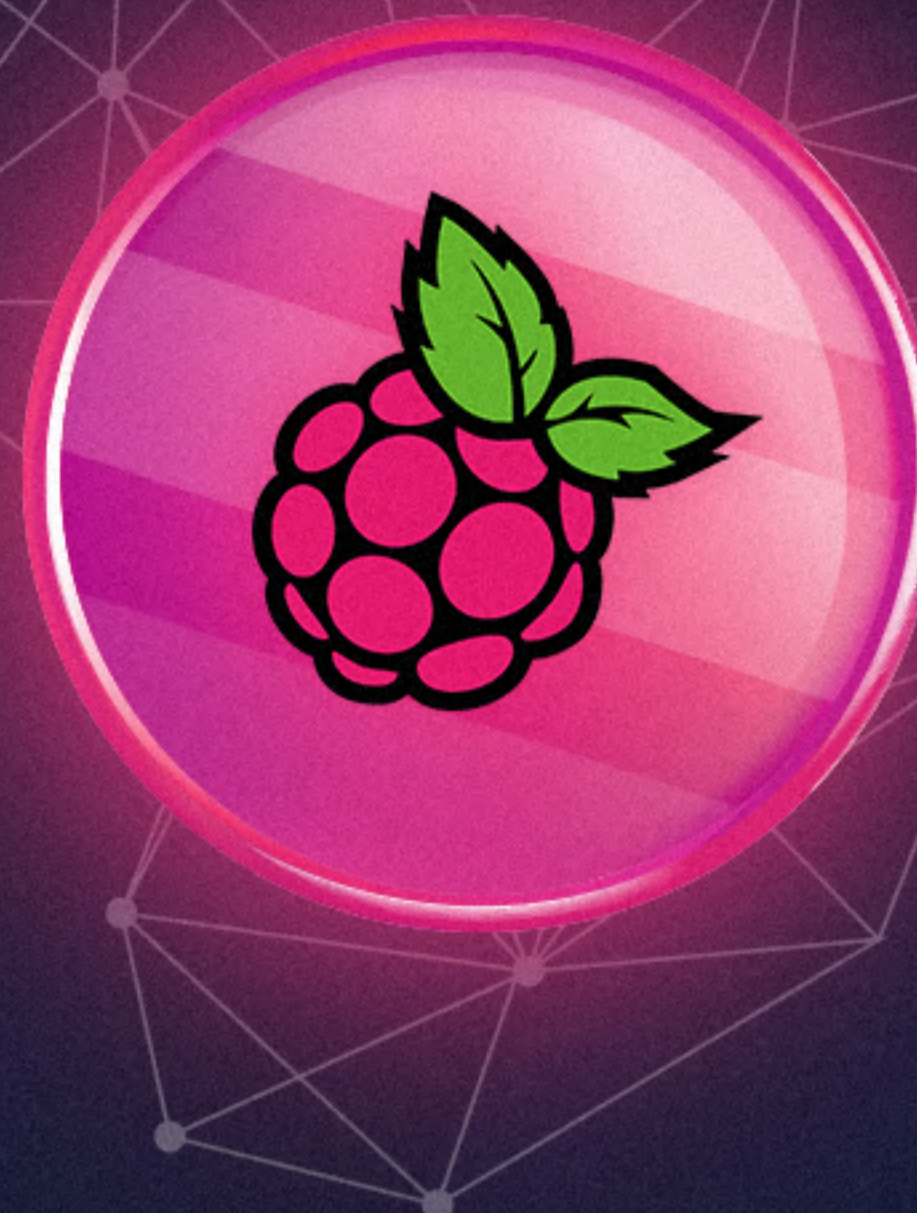
# MALINKA TOKEN (MLNK)

Malinka token is based on income derived from commissions received from emissions of stable coin and exchange (conversion) of native and any other cryptocurrencies and tokens into each other by their users.

The higher the number of users, the higher the number of exchange operations and conversion volume, the higher the income that is directed towards automatic purchase from pools and subsequent utilization (burning) of Malinka by the smart contract.

## TO MINE (EARN) MALINKA —

ONE HAS TO JUST MAKE A DEPOSIT INTO ONE OF THE SMART CONTRACTS, FOR ANY PERIOD OF TIME:



1

### INTO AN INCOME-GENERATING LIQUIDITY POOL

(pair of Malinka with any other token – for example EOS / MLNK) on which Malinka is accrued in a standard mode

OR  
ALTERNATIVELY

2

### INTO A SPECIAL EMISSION POOL USDT/MLNK

where MKNK is accrued in an accelerated fashion.

- Every second a bonus of Malinka is accrued to all investors into pools, in proportion to the volume of their investments.

- Investors may retrieve their funds and all Malinka earnings at any time.

## EMISSION OF MALINKA IS LIMITED BY 26.25 BILLION TOKENS

Emission of Malinka is distributed every second by the smart-contract in volumes that constantly decrease with time. Distribution of Malinka is a finite process and will stop algorithmically after 500 billion blockchain blocks (8 years).

In parallel to the emission, a deflationary burning of Malinka is performed automatically on a daily basis.

Burning is performed by a smart contract using funds from commission income on currency conversions on a decentralized DeFi service PayCashSwap.com.

**BURNING OF MALINKA ACCORDING TO THIS ALGORITHM IS PERFORMED INDEFINITELY AND IS NOT TIME LIMITED.**

## PAYCASHSWAP.COM LIQUIDITY POOLS:

For the purpose of earning income a user may invest any EOS blockchain tokens, including native tokens of the PayCash ecosystem, into liquidity pools thus providing other users with liquidity for performing token exchanges.

Paying in and retrieving tokens from the liquidity pools is not time or volume limited and is done instantaneously.



## THE IDEA OF EARNINGS OF THE USER THAT HAS MADE A DEPOSIT INTO THE LIQUIDITY POOLS IS VERY SIMPLE:

### EACH EXCHANGE OPERATION IN THE POOLS OF PAYCASHSWAP.COM

is subject to a commission of 0,25% of the exchange sum that is subsequently distributed among all participants of the pool in proportion to their share:

- **0,2%** - is proportionally distributed among users who have provided liquidity.
- **0,05%** - is directed to purchase and subsequent burning of Malinka (MLNK) by a special smart contract.

### AS AN ADDITIONAL BONUS

investors that have contributed liquidity in the form of Malinka together with any whitelist token (see Annex 2) receive a certain amount of Malinka distributed in proportion to their pool deposits.

## LQ LIQUIDITY TOKENS

Liquidity tokens are cryptocertificates that are automatically accrued to the investors into liquidity pools. They confirm the fact that the investor has provided funds to a given liquidity pool and reflect the users' share in this pool.

To retrieve from the liquidity pool all or part of liquidity provided, the user has to send to the smart contract all or part of respective liquidity tokens.

Like all other native PayCash ecosystem tokens, liquidity tokens may be – freely and without any limits – transferred between wallets and may be subject to the setup of automatic inheritance.



# USDCASH STABLECOIN

Emission lot must be staked in installments of 100 USD  
Кратность эмиссионного лота кратна 100 USDCASH.  
To perform the emission, the user must send to the smart contract token.pcash USDT tokens (in lots of 100) and an equivalent in value amount of MLNK.

The smart contract will then check the exchange rate of USDT / MLNK, perform the emission and send to the user USDCASH tokens in the amount that equals the amount of USDT staked by the user.

In case any excess amounts of USD or MLNK were sent to the contract, it will proceed to return them.



## THE SMART CONTRACT ENTERS INFORMATION ABOUT EVERY EMISSION LOT INTO THE EMISSION REGISTRY (EMISSION RECEIPT).

Any user that has previously performed the emission of USDCASH may at any moment and without being charged any commissions perform the reverse exchange of USDCASH according to the emission receipt.

The smart contract will then return USDT and MLNK tokens deposited earlier to the user.

USDCASH tokens provided for reverse exchange are then burned in their entirety.

In addition to that the smart contract allows ANY user who has in his possession USDCASH tokens in the amount not less than 10000 USDCASH to perform a guaranteed exchange of tokens (in multiples of 100) to the respective amount of USDT.

USDCASH, used to perform the guaranteed exchange is burned by the smartcontract in its entirety.

## THE SMART CONTRACT

DETERMINES WHICH COLLATERAL WILL BE LIQUIDATE FIRES ACCORDING TO THE FOLLOWING TWO CRITERIA:

1

### LOWEST AMOUNT

of MLNK staked and, in case equal,

2

### EARLIEST

by date emission of USDCASH.

Users whose collateral was subject to liquidation under the guaranteed exchange receive back the equivalent of USDT exchanged to MLNK at the historical exchange rate at the time the collateral was staked into the emission pool.



# IN ADDITION TO USDCASH

IN ADDITION TO USDCASH, THE SMART CONTRACT RECEIVES FOR GUARANTEED REVERSE EXCHANGE TO USDT OR MLNK OTHER CASH TOKENS EMITTED IN THE ALPHA-VERSION OF THE ECOSYSTEM ACCORDING TO THE FOLLOWING RATES (MINIMAL EXCHANGE SUM IS 100 USDT):



-  RUBCASH 7000 FOR 100 USDT
-  UAHCASH 3975 FOR 100 USDT
-  EURCASH 106.25 FOR 100 USDT
-  RMB CASH 715 FOR 100 USDT

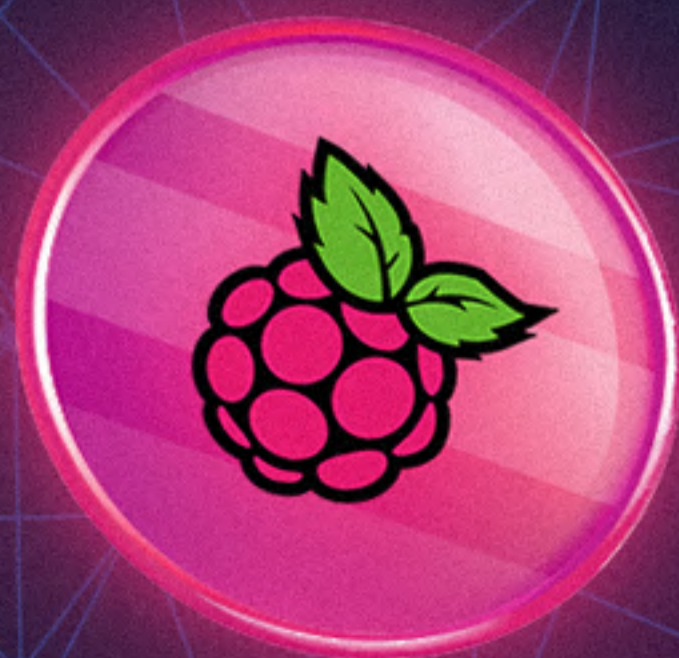
THUS THE SMART CONTRACT GUARANTEES A HARD 1:1 PEG OF USDCASH STABLECOIN TO USDT.

## A SPECIAL EMISSION POOL

JUST LIKE OTHER LIQUIDITY POOLS, PARTICIPATES IN THE DISTRIBUTION OF MALINKA BONUS TOKEN, WITH AN INCREASED RATIO OF ITS DISTRIBUTION.

Users that participate in the emission and have contributed USDT/MLNK in the special collateral pool, receive 75% of MLNK accrued to this pool.

Transfers of USDCASH stablecoins between wallets of the users are not subject to any commissions and may be subject to automatic inheritance.





# LIST FAMILY OF TOKENS

Emission of LiST tokens (of their various regional types) is performed by an EOS blockchain based smart contract, the oracle of which is the Association of Non-Commercial Foundations List.Family (List.family).

Smart contract emits LiST tokens only in case non-commercial foundations that are members of the abovementioned association accept as donation immediate use-ready residential real estate with a total area not exceeding 75 square meters, located in strictly defined areas of megapolises of the world.

Token LiST may also be emitted only in case there is a user willing to use this real estate and ready to pay utility costs and ensure safe keeping of the real estate.

## SELECTION OF THE USERS OF RESIDENTIAL REAL ESTATE (IN FACT – TOKEN COLLATERAL)

IS PERFORMED BY MEANS OF RANDOM DRAWING AMONG INTERESTED PARTICIPANTS.

This allows non-commercial foundations that are the members of the List.family association to provide residential estate to users who require it free of charge.

Such users may then instead of having to pay rental payments, accumulate their freed funds and direct them towards purchase of their own real estate or to other important personal causes.

## LIST TOKENS

ARE A UNIQUE INVESTMENT INSTRUMENT, THAT GUARANTEES THE PROTECTION OF CAPITAL AND ITS STABLE GROWTH ABOVE INFLATION RATES.

In start contract to funds that are frozen in the banks as deposit, this instrument has a distinct social function, allowing people in need to use assets of the investors for charitable purposes.



# RUBLES STABLECOIN

RUBLES – a stablecoin fully backed by the fiat ruble that is deposited by physical or legal persons.

Emission of RUBLES stablecoin is performed by an EOS blockchain based smart contract.

Each RUBLES token emitted into circulation is backed 1:1 (one RUBLES equals one Russian ruble) by the unit of fiat currency actually deposited into the account of the operator / emitent company LiST Properties Ltd. In a commercial bank.



## EMISSION ARCHITECTURE:

1

### THE USER

deposits fiat money to the account of LiST Properties Ltd in a bank, confirms the need for emission of RUBLES and the address of his wallet.

2

### LIST PROPERTIES LTD

places an on-demand deposit into the bank as collateral for emission of RUBLES stablecoin and confirms readiness to emit.

3

### THE BANK CONFIRMS RECEIPT

of an on-demand deposit as collateral for stablecoins and gives an order to emit RUBLES and release them to the wallet of the user in the amount that corresponds 1:1 to the amount of funds deposited.

4

### THE SMART CONTRACT

emits RUBLES to the wallet of the user.

## TO EMIT THE STABLECOIN THE SMART CONTRACT

NEEDS CONFIRMATION FROM THE WALLETS  
OF ALL THE INVOLVED PARTIES:

**1. User**   **2. Operator**   **3. Bank**

This provides for the maximum control needed to ensure stability and support of 1:1 hard peg of RUBLES token to the associated fiat asset.

Thus, at any given moment, the remainder of the fiat currency in the reserves of LiST Properties Ltd. will be equal to the number of RUBLES tokens in circulation. Once RUBLES is emitted, it may be transferred, stored, sold etc.

Transfers of RUBLES stablecoins among wallets are performed without any commissions and RUBLES

stablecoins may be subject to automated inheritance.

**RUBLES MAY BE EXCHANGED TO A BASIS FIAT CURRENCY (RUBLE) ACCORDING TO THE SERVICE TERMS OF THE OPERATOR / EMITENT LIST PROPERTIES LTD.**

# INHERITANCE

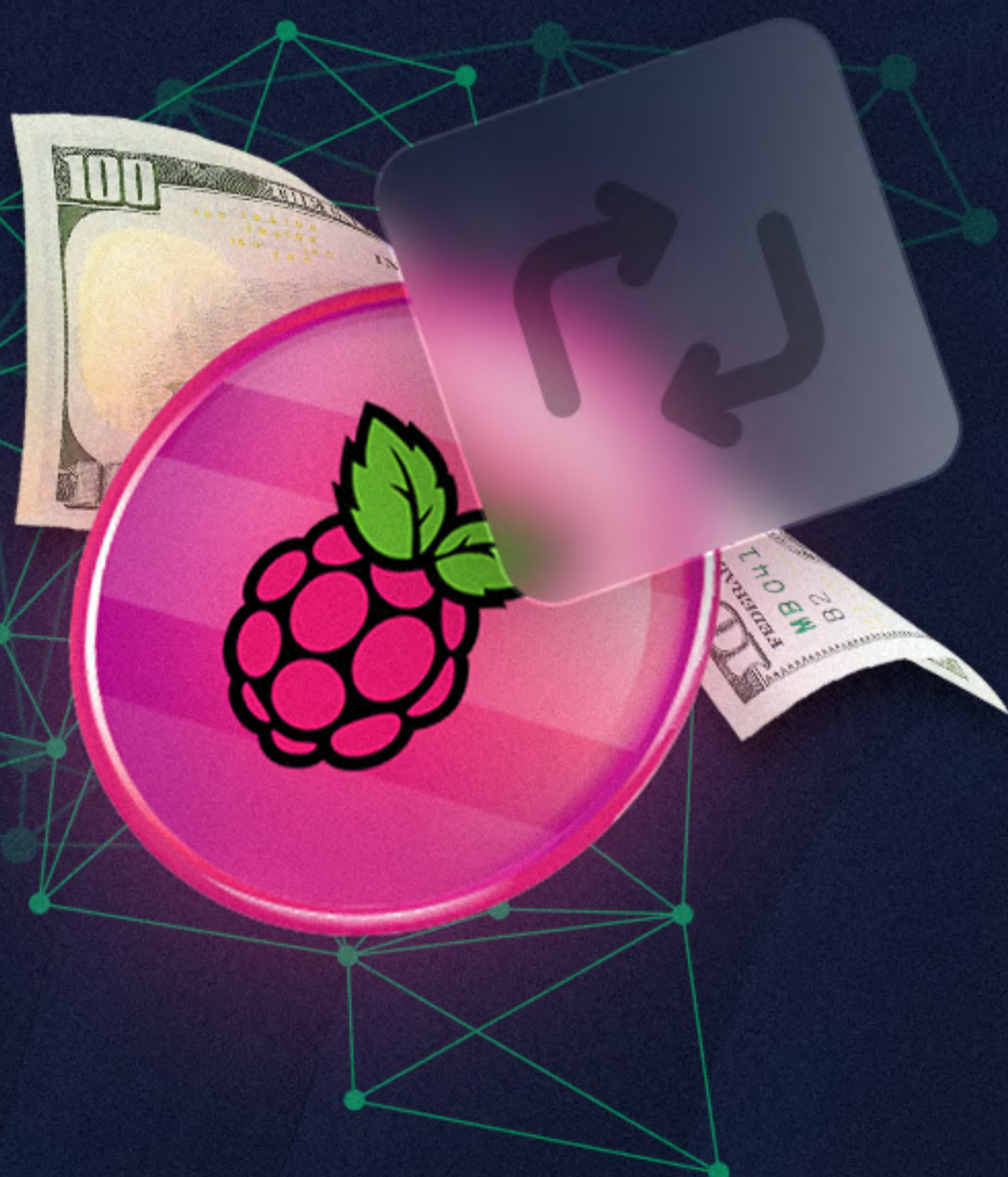
PC ecosystem allows its users to setup up in a quick and easy fashion a smart contract for automated transfer of PC token funds to other users (wallets) in case of temporary inactivity of user's own wallet according to the user's wish.

Inheritance may be set up for all native tokens in applications PayCash, Malinka and Kalyna in the Inheritance menu.



# P2P EXCHANGE OF CRYPTO TOKENS TO FIAT MONEY AND VICE VERSA

One of the advantages of PC is a decentralized p2p exchange, performed via an EOS blockchain based smart contract that is not influenced by any third party.



BUYER OF CRYPTO TOKENS OF PAYCASH ECOSYSTEMED MAY EFFECT THE PURCHASE BY USING THE FOLLOWING METHODS:

- + **MAKE THE PAYMENT**  
to the seller's payment card through a mobile application of the bank;
- + **PAY A PAYMENT**  
link provided by the seller, for the seller who created a link for payment for a purchase with his own card;
- + **PROVIDE THE SELLER**  
own virtual credit card that may then be tied to the seller's telephone and consequently used for offline or online payments;
- + **PASS TO THE SELLER**  
cash funds – either personally or by using storage compartments;
- + **PAY TO THE SELLER**  
to his specified account by means of bank transfer

All communication of the buyer with seller is done in the crypto-chat of the PC ecosystem.

In addition to that all interested companies may provide their acquiring capabilities for topping up the user's wallets from cards or for card payouts.

## «LIST FAMILY» ASSOCIATION OF NON-COMMERCIAL FOUNDATIONS

Development of blockchain technologies and its acceptance by society may lead to a dramatic change of established human stereotypes.



### THE ASSOCIATION PROVIDES – FREE OF ANY CHARGE

residential real estate that belongs to its non-commercial member funds to people in need, who now – instead of directing their funds towards rental payments – may accumulate funds and direct them towards future purchase of real estate or any other important personal causes.



### INVESTOR-SPONSORS OF THE ASSOCIATION

do not require rental income of their assets due to difficulties of interacting with potential management companies and associated financing mechanisms. They would rather donate this income to beneficiaries that will use the real estate for their own purposes.

**THIS ALSO ENABLES CONSTANT CONTROL OVER THEIR REAL ESTATE.**

## PAYCASH-FOR-STORE (PC4.STORE)

Any business may start receiving payments in PayCash ecosystem tokens.

For this one needs to register and receive an API key to connect the payment system.



### PC4.STORE

has an internal system of payment accounting and analytics.



### PC4.STORE






is created to enable people make convenient payments for goods and services using cryptocurrencies


In analogy with pc4store, any bank may connect to the pc4bank system their sites and mobile applications to perform any payments in the interests of their clients without the need for payment systems or SWIFT.




**ANNEX 1**


# PAYCASH ECOSYSTEM SMART CONTRACTS


-  **TOKEN.LIST**  
enables emission, burning and circulation of LiST tokens;
-  **CONTEST.LIST**  
an account that receives funds for random selection of winners of free use contest;
-  **BURN.LIST**  
enables utilization (burning) of LiST tokens;
-  **TOKEN.PCASH**  
enables emission, burning and circulation of USDCASH stablecoin;
-  **P2P.PCASH**  
enables peer-to-peer exchange;

 **SWAP.PCASH**  
a smart contract that enables the decentralized exchange protocol, that allows users to trade without intermediaries. The smart contract is based on an AMM model where liquidity providers create liquidity pools.  
  
This smart contract also enables distribution of MLNK according to the rules of the eco-system.

 **MLNK.PCASH**  
enables emission of MLNK tokens (Malinka);

 **MECHATMECHAT**  
enables EOS-blockchain based exchange of encrypted messages;

 **FREETX.PCASH**  
enables free transactions in PayCash app;

 **RUBLESRUBLES**  
enables emission, burning and circulation of the RUBLES stablecoin.

**ANNEX 2**

# TOKEN WHITELIST

- |   |  |   |                                 |
|---|--|---|---------------------------------|
|  | <b>MLNK "MALINKA"</b><br>(SWAP.PCASH)    |  | <b>USDT</b><br>(TETHERTETHER)   |
|  | <b>LIST TOKEN FAMILY</b><br>(TOKEN.LIST) |  | <b>EOS</b><br>(EOS.IO)          |
|  | <b>USDCASH</b><br>(TOKEN.PCASH)          |  | <b>RUBLES</b><br>(RUBLESRUBLES) |



## ANNEX 3

## EXAMPLES OF SMARTCONTRACT INTERACTION

### WORKING WITH **TOKEN.PCASH** SMART CONTRACT

#### ACCOUNT OPENING

```
cleos -u https://eos.greymass.com/ push transaction '{
  "delay_sec": 0,
  "max_cpu_usage_ms": 0,
  "actions": [
    {
      "account": "token.pcash",
      "name": "open",
      "data": {
        "owner": "limellowoost",
        "symbol": "5,USDCASH",
        "ram_payer": "limellowoost"
      },
      "authorization": [
        {
          "actor": "token.pcash",
          "permission": "active"
        }
      ]
    }
  ]
}'
```

#### USDCASH EMISSION

Emission of tokens is performed against stake of USDT and MLNK in equal proportions.

To perform the emission a usual transfer operation is to be used to send USDT tokens in a multiple of **100** (amount from the swap1 table) and MLNK calculated according to the following formula:

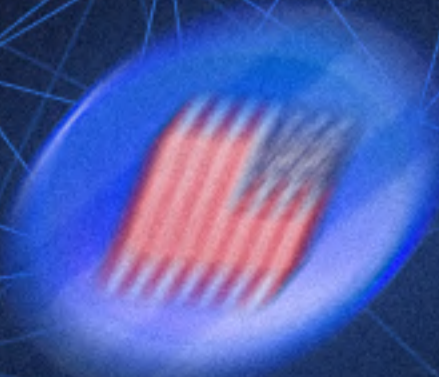
```
const POOL_MLNK // amount of MLNK in the pool on
swap.pcash
const POOL_USDT // amount of USDT in the pool on
swap.pcash
const USDT_LOT_SIZE // to be taken from the smart contract
table
const USDT_TO_DEPOSIT // amount of USDT sent by the user
const MLNK_IN_LOT =
  Math.ceil(POOL_MLNK / POOL_USDT * USDT_LOT_SIZE * 10
** 8) / 10 ** 8
const MLNK_TO_TRANSFER = USDT_TO_DEPOSIT / US-
DT_LOT_SIZE * MLNK_IN_LOT
```

## AS A RESPONSE THE USER SHALL RECEIVE USDCASH

equal to the amount of USDT sent, excess USDT and / or MLNK shall be returned, a relevant record will be placed in the table



```
cleos -u https://eos.greymass.com/ push transaction '{
  "delay_sec": 0,
  "max_cpu_usage_ms": 0,
  "actions": [
    {
      "account": "tethertether",
      "name": "transfer",
      "data": {
        "to": "token.pcash",
        "from": "limellowoost",
        "quantity": "100.0000 USDT",
        "memo": ""
      },
      "authorization": [
        {
          "actor": "limellowoost",
          "permission": "active"
        }
      ]
    },
    {
      "account": "swap.pcash",
      "name": "transfer",
      "data": {
        "to": "token.pcash",
        "from": "limellowoost",
        "quantity": "50000.0000 MLNK",
        "memo": ""
      },
      "authorization": [
        {
          "actor": "limellowoost",
          "permission": "active"
        }
      ]
    }
  ]
}'
```



## BURNING OF USDCASH

Send \*CASH tokens by ordinary transfer operations in multiples of values from swapback exchange rate table.

Burning results in the receipt of either MLNK or USDT by specifying usdt or mlnk in the memo of the transfer operation (lowercase)



```
cleos -u https://eos.greymass.com/ push transaction '{
  "delay_sec": 0,
  "max_cpu_usage_ms": 0,
  "actions": [
    {
      "account": "token.pcash",
      "name": "transfer",
      "data": {
        "to": "token.pcash",
        "from": "limellowoost",
        "quantity": "100.00000 USDCASH",
        "memo": "usdt"
      }
    },
    {
      "actor": "limellowoost",
      "permission": "active"
    }
  ]
}
```

## DEPOSIT RETURN

```
cleos -u https://eos.greymass.com/ push transaction '{
  "delay_sec": 0,
  "max_cpu_usage_ms": 0,
  "actions": [
    {
      "account": "token.pcash",
      "name": "swapback",
      "data": {
        "user": "limellowoost",
        "cash": "100.00000 USDCASH",
        "id": 19
      }
    },
    {
      "actor": "limellowoost",
      "permission": "active"
    }
  ]
}
```





## WORKING WITH SWAP.PCASH

open – open an account with liquidity tokens / mlnk – authorized by  
 ram\_payer  
 owner: alice  
 symbol: 0,LQA  
 ram\_payer: alice

close – open an account with liquidity tokens / mlnk – authorized by owner  
 owner: alice  
 symbol: 0,LQA

withdraw – withdraw funds from the pool and burn liquidity tokens – authorized by owner  
 owner: alice  
 lq\_tokens: 1000 LQA

issue – emission of liquidity tokens, authorized by smart contract  
 to: bob  
 quantity: 1000 LQB  
 memo: ""

retire – burning of liquidity tokens, authorized by smart contracts  
 from: alice  
 quantity: 1000 LQA  
 memo: ""

createpool – pool creation – authorized by creator  
 creator: alice  
 token1: {"sym": "5,RUBCASH", "contract": "token.pcash"}  
 token2: {"sym": "5,USDCASH", "contract": "token.pcash"}

remove pool – deletion of pool – any authorization  
 pool\_id: 1

swapdetails – exchange notification – authorization by smart contract  
 pool\_id: 1  
 owner: alice  
 token\_in: {"quantity": "4.0000 USDT", "contract": "tethertether"}  
 token\_out: {"quantity": "0.4993 EOS", "contract": "eosio.token"}  
 pool\_fee: {"quantity": "0.0080 USDT", "contract": "tethertether"}  
 platform\_fee: {"quantity": "0.0020 USDT", "contract": "tethertether"}  
 price: 4.00

addlqdetails – notification of addition of liquidity, authorized by smart contract  
 pool\_id: 1  
 owner: alice  
 lqtoken: 10 LQA  
 token1: {"quantity": "1.0000 EOS", "contract": "eosio.token"}  
 token2: {"quantity": "4.0000 USDT", "contract": "tethertether"}

rmvlqdetails – notification of decreased liquidity, authorized by smart contract  
 pool\_id: 1  
 owner: alice  
 lqtoken: 10 LQA  
 token1: {"quantity": "1.0000 EOS", "contract": "eosio.token"}  
 token2: {"quantity": "4.0000 USDT", "contract": "tethertether"}

updinhdate – update inheritance time period  
 owner : ins  
 inactive\_period : 10000

updtokeninhs – update inheritors  
 owner : ins  
 inheritors : [{"inheritor": "user1", "share": "100.0 PERCENT"}]  
 owner : sgn  
 inheritors : [{"inheritor": "user1", "share": "45.0 PERCENT"}, {"inheritor": "user2", "share": "30.0 PERCENT"}, {"inheritor": "user3", "share": "25.0 PERCENT"}]

dstrinh – distribute inheritance  
 initiator : apk  
 inheritance\_owner : ins  
 token : "LQA"

## ADDITION OF LIQUIDITY INTO THE POOL

```
cleos -u https://eos.greymass.com push transaction '{
  "delay_sec": 0,
  "max_cpu_usage_ms": 0,
  "actions": [
    {
      "account": "eosio.token",
      "name": "transfer",
      "data": {
        "from": "alice",
        "to": "swap.pcash",
        "quantity": "1.0000 EOS",
        "memo": "deposit:1"
      },
      "authorization": [
        {
          "actor": "alice",
          "permission": "active"
        }
      ]
    },
    {
      "account": "tethertether",
      "name": "transfer",
      "data": {
        "from": "alice",
        "to": "swap.pcash",
        "quantity": "1.0000 USDT",
        "memo": "deposit:1"
      },
      "authorization": [
        {
          "actor": "alice",
          "permission": "active"
        }
      ]
    }
  ]
}
```

## TOKEN EXCHANGE

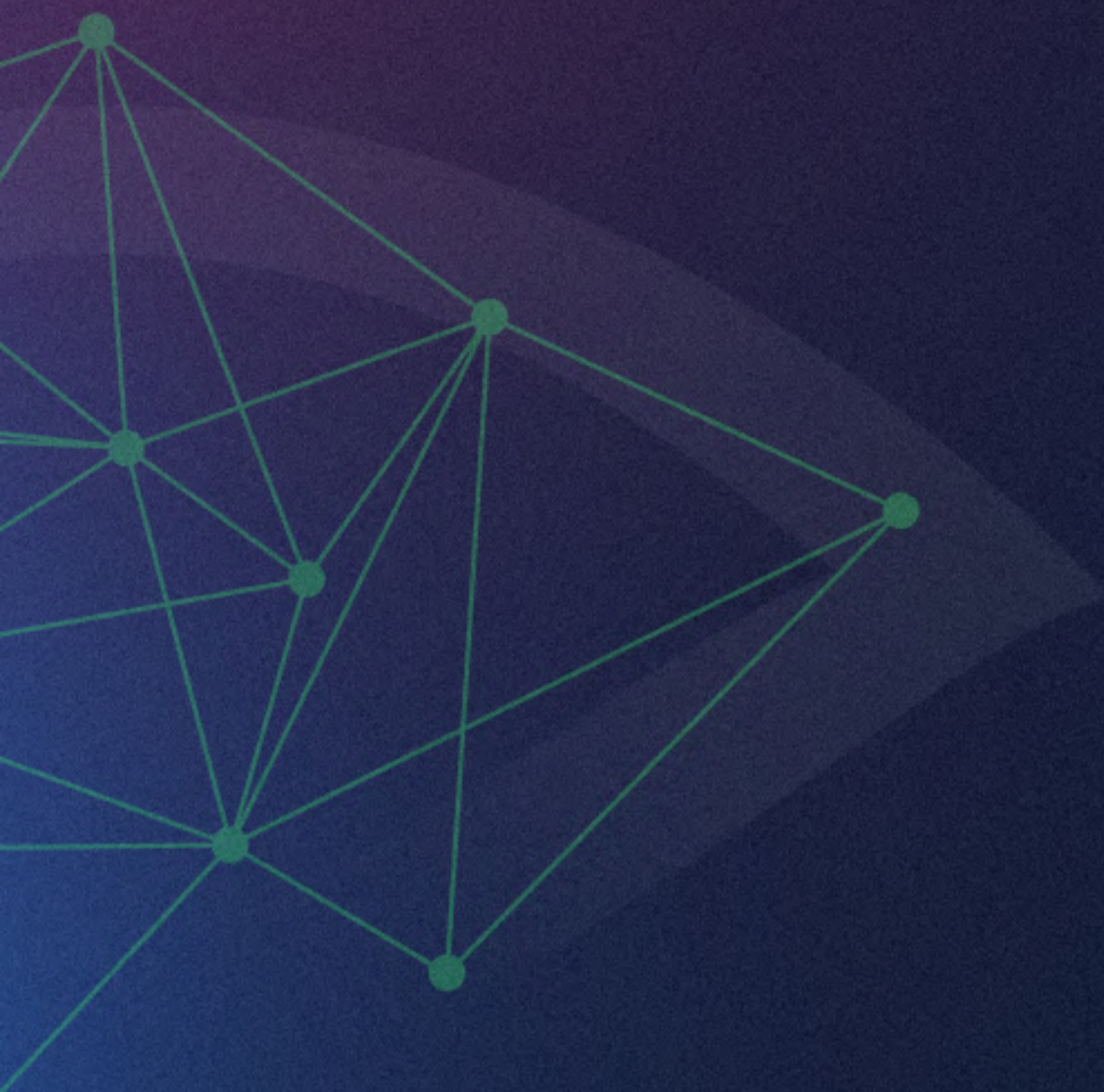
```
cleos -u https://eos.greymass.com push transaction '{
  "delay_sec": 0,
  "max_cpu_usage_ms": 0,
  "actions": [
    {
      "account": "eosio.token",
      "name": "transfer",
      "data": {
        "from": "alice",
        "to": "swap.pcash",
        "quantity": "1.0000 EOS",
        "memo": "swap:1"
      },
      "authorization": [
        {
          "actor": "alice",
          "permission": "active"
        }
      ]
    }
  ]
}'
```

## TOKEN EXCHANGE WITH LIMITS ON LOWEST AMOUNT

```
cleos -u https://eos.greymass.com push transaction '{
  "delay_sec": 0,
  "max_cpu_usage_ms": 0,
  "actions": [
    {
      "account": "eosio.token",
      "name": "transfer",
      "data": {
        "from": "alice",
        "to": "swap.pcash",
        "quantity": "1.0000 EOS",
        "memo": "swap:1;min:40000"
      },
      "authorization": [
        {
          "actor": "alice",
          "permission": "active"
        }
      ]
    }
  ]
}'
```



## CROSS-EXCHANGE OF TOKENS



```
cleos -u https://eos.greymass.com push transaction '{
  "delay_sec": 0,
  "max_cpu_usage_ms": 0,
  "actions": [
    {
      "account": "eosio.token",
      "name": "transfer",
      "data": {
        "from": "alice",
        "to": "swap.pcash",
        "quantity": "1.0000 EOS",
        "memo": "swap:1-3"
      },
      "authorization": [
        {
          "actor": "alice",
          "permission": "active"
        }
      ]
    }
  ]
}'
```

## CROSS-EXCHANGE OF TOKENS WITH LOWER AMOUNT LIMIT



```
cleos -u https://eos.greymass.com push transaction '{
  "delay_sec": 0,
  "max_cpu_usage_ms": 0,
  "actions": [
    {
      "account": "eosio.token",
      "name": "transfer",
      "data": {
        "from": "alice",
        "to": "swap.pcash",
        "quantity": "1.0000 EOS",
        "memo": "swap:1-3;min:40000"
      },
      "authorization": [
        {
          "actor": "alice",
          "permission": "active"
        }
      ]
    }
  ]
}'
```