
Digital inheritance service

Initial Coin Offering

DigiPulse - 15 July 2017

Overview

DigiPulse is creating an alternative for the **last will in the digital age**.

Our goal is to ensure that digital assets are **not lost** and **people are able to pass them on** to the rightful inheritors, in case of the owner's death.

By this we are tackling the issue of escheatment in the digital domain. Our plan is to set up an infrastructure that will become an industry wide standard **for the future generations to come**.

With the increasing usage of cryptocurrencies the problem of leaving your assets to inheritors is becoming more and more important. Currently none of the digital vaults offer this possibility and the user can't be sure that the paper wallet will be delivered to the rightful inheritor.

We are launching a crowdsale for DPT - the token currency used by initial backers of DigiPulse, to support the development of this service and **grant future admissions** for service usage.

This will be accomplished by introducing "**passive mining**" functionality which will be deeply rooted into the concept of the DigiPulse service .

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The Problem

With the creation of Blockchain in 2009, people globally are starting to use cryptocurrencies as an alternative form of investment. But this form of currency has a flaw – if the user can't access the digital wallet where the currency is stored (because of death or loss of memory), then these assets will remain dormant and they will be kept on the selected service provider's accounts from 3-5 years (depending on the underlying jurisdiction and the specific terms and conditions of the service) and then handed over to the state of the registered company (this process is known as escheatment). The same principle applies for services that store other digital assets - files, valuable information, etc.

The primary problem to be solved is the loss of the digital assets that cannot be passed on with the help of a physical will.

While the process of escheatment is ongoing (the search for inheritors) the services that store cryptocurrency can conduct a "dormancy fee", thus reducing the amount of assets people can inherit - if the inheritors are found at all.

Opportunity

By using the technologies currently available, DigiPulse offers a new way of monitoring a user's activity status remotely and a way to enhance (if not disrupt) the way of passing digital assets on.

This way DigiPulse eliminates the possibility of assets becoming dormant, thus significantly decreasing the amount of time it might take for the inheritors to gain access to these assets (that they might not even know existed) and this will implement a new standard for the industry that deals with digital asset storage by following up on clients more frequently, which in turn will help the users not to get their funds eroded through "dormancy fees". Also, we see this as a tool to help existing services to clear up their databases.

The implementation of such a product would also decrease the amount of workload currently assigned to the state services dealing with escheatment

(especially in the field of digital assets). This way we can upgrade the existing process of escheatment by providing a commercialised solution by exploiting the existing technologies.

The additional goal of the project is to create a database consisting of currently active users and with time a “graveyard database”. The two databases will provide valuable statistics in mapping the existing digital personas (emails, service accounts, different product usage, etc.) and the “dead” accounts (this will be used as an additional pivot to the service that will provide 3rd parties that hold large databases of customers to verify the state of their user accounts). The users will hold the option to choose how much they disclose about themselves upon registration.

Business Model

DigiPulse is a SaaS platform that charges a subscription fee (per month, per annum) for memberships. The subscription fee is paid via fiat currencies or in DGP - the DigiPulse coin. The coin amount per subscription is adjusted dynamically - the subscription cost using the coin will be 50% less than subscribing with fiat currencies. This will benefit the recognition of the coin, thus increasing its price and motivating people to mine it in order to use the service almost for free. The goal of this is to allow anyone who is not familiar with the concept of cryptocurrencies and the mining process to take part, thus increasing the recognition of DGP and the crypto-market as a whole.

Target Audience

The DigiPulse service is for individuals who own cryptocurrencies or any other digital assets (online file storages, cloud drives, email accounts, social profiles) that they would like to store and pass on.

Service Description

The service is able to establish the activity status of the user without any additional input besides the first set up. It is a platform where the user can store information (letters, photos, miscellaneous information), write personal notes and have integrations from various other services (e.g. Coinbase, Bitcoin Core, etc.). An inheritor is assigned for every “vault” the user creates. The selected inheritor can access it after the original user has been declared deceased. **No actual currencies are being stored in the DigiPulse service besides DGP, since the service works by utilising the available integrations with existing wallet providers.**

Technology

The platform automatically establishes the status of the user (the period of inactivity) via a desktop app, a smartphone app and/or other web based integrations (each service that we integrate with becomes a separate channel of monitoring the user activity).

The user is the one who determines which integrations he connects to his account and the way his/her activity should be tracked, and the inactivity period that triggers the data send out.

Asset transfer

DigiPulse allows to have verification with and without the user ID - users who will choose the former will be able to ensure that the assets will be transferred to the 3rd party of choice by the asset holding service (DigiPulse will act as a digital executor). In the case of the latter option, the information about the asset whereabouts will be directly passed on to the inheritors via the details that are specified by the original asset holder.

Users will be able to choose one of two scenarios for each vault - they can be kept secret (DigiPulse will be the sole owner, besides the asset holder, who has information about the whereabouts of the funds) or the inheritors can be

notified as soon as the vault has been created. The latter option provides the direct contact to the inheritors when the inactivity period has been reached.

DigiPulse users are incentivised to provide the personal details upon registration as this will guarantee the asset transfer to the selected recipients. As stated previously, “blank accounts” consisting only of scarce information (e.g. only an email account) will have the information passed on by DigiPulse through the communication channels provided.

Upon reaching the inactivity period, the process of finding out the whereabouts of the account holder is initiated. If it is confirmed that inheritance should take place, then one of three scenarios is triggered - depending on the connected integration type:

1. If the user has authorised DigiPulse to operate with funds on their behalf, then the funds are automatically transferred to the next of kin (this will be only done by receiving the necessary legislative documentation - a death certificate, from the inheritors);
2. If the user has connected with the third party services without the possibility for DigiPulse to operate with the assets, then the inheritor receives the necessary information on how to get in touch with the services and coordinate the asset transfer to their names (such informative transfers will be possible without the legislative documentation);
3. If the third party has integrated with DigiPulse API and requested to receive notifications about the state of the account holders, the 3rd party service takes the asset transfer as their responsibility and upon receiving notification from DigiPulse, sends the assets to the inheritor themselves without the involvement of the inheritor.

Data and API Services

The account holder is not required to inform any of the inheritors about the service beforehand, so the service can be used as an online “dead-man’s-switch”. All the information stored on DigiPulse is encrypted and the connected integrations are kept private until the confirmation of death has been received.

Information about the integrations is disclosed to the inheritors only upon receiving a confirmation of death of the account holder.

API services are a part of our roadmap focusing on acquiring partners. The DigiPulse database will work as a huge network that will allow the 3rd parties to look up the status of customers, based on the data provided. This could be implemented as the practice for other dormant account holders to transfer accounts to the inheritors listed on DigiPulse.

Security

Integrations and DGP/DGT stored require a high level of security - the aim is to set up PCI DSS level of security and get the appropriate certifications in place. PCI DSS is a commonly used certification type by banks and other financial industries which require a strong auditing and PII (personally identifiable information) protection.¹

If a file is stored on the DigiPulse servers that contains an address of a wallet or any other information, the passing of which to a 3rd party can lead to losses for the original asset holder, DigiPulse does not take any liabilities if the information is lost or corrupted through acts of malicious attacks on the service. The DigiPulse service does **not** know and does **not intend** to know about the contents of the vault. It can be encrypted by the user for additional security, encouraging the user to keep a security passphrase separately from the DigiPulse service. This passphrase can be distributed physically, for example in the last will. Only a certain amount of information is made visible on our database (such as the user profile, including the subscribed services and the information about the receivers/inheritors). Nevertheless, a proportion of the raised funds will be allocated to make sure that DigiPulse.io is up to standards in the security field by undergoing the necessary audits by third parties.

¹ https://www.pcisecuritystandards.org/pci_security/

State of the project

As of now, the project has the platform developed and is awaiting the Beta release (this is planned to be rolled out a couple of months after the end of the Initial Coin Offering). The DigiPulse smartphone applications are finalised and are awaiting their release in the app stores. One of the goals of the ICO is to gather funds for the DigiPulse service to be able to gather a team of professionals, who specialise in the respective fields of IT, law and the cryptocurrency domain - right now we are in talks with possible candidates who would form the first addition to the existing DigiPulse team.

A big milestone has already been reached in acquiring our first partnering service - San Francisco based cryptocurrency wallet provider Coinbase². Coinbase has made DigiPulse eligible to transfer up to 50,000 USD worth of assets on behalf of the users.

After the ICO, we will focus on acquiring more partnering services to integrate with. DigiPulse will also grant the option for users to 'suggest' services that our customers would like to be added to our partner list.

² <https://www.coinbase.com/>

Token holders and Passive Mining

The principle behind the DigiPulse service relies on involvement of both - a limited supply of tokens (DGT) which are acquired during the crowdfunding stage and coins (DGP) which are mineable by anyone on their CPU/GPU.

Pre-sale

DigiPulse will offer the opportunity to acquire the DigiPulse Tokens (DGT) with a **reward of 25%** in a pre-sale that will take place starting 19.07.2017 and ending on 25.07.2017. We will offer 100,000 tokens that will carry a bonus of 25% (the total amount of DGT available in the pre-sale will be 125,000 units). The tokens will be distributed to the contributors after the ICO has ended.

The purpose of the pre-sale is to enable DigiPulse to cover the initial preparation and marketing costs affiliated with the ICO. We see this as an important part of our project, because by allocating funds to the marketing campaign we can ensure a higher success rate, which in turn will help the tokens increase their value in the future.

Token Release - DGT

The Initial Coin Offering of DGT starts on 04.08.2017 and ends on 31.08.2017. The tokens will be transferred to the users after the ICO has ended within one week. The DigiPulse team will use Ethereum Contracts Creator to generate DGT tokens. They will be generated and sent out after all of the results will be compiled. By using this approach, we will be able to generate the necessary amount of tokens that corresponds to the raised amount of funds. DigiPulse will provide the source code of the contract so that the exact raised amount of tokens will be generated and afterwards - distributed. Even though there isn't a fixed amount of tokens available at the start of the ICO, they will have a hard limit that can not exceed 16,581,633 DGT. The tokens made available during the ICO will be standard "usage tokens". After the ICO, we will work towards adding the token to several exchanges and will be updating our progress on our homepage.

The ICO will be available at www.digipulse.io.

ICO details

The maximum amount of tokens available during the pre-sale and the ICO	16,250,000 tokens (equals 98% of the total token amount available)*
Token price	0.004 ETH per Token**
Token ticker	DGT
Minimum purchase per person	1 Token
Maximum purchase per person	6,000,000 Tokens
Accepted currencies	ETH

* 98% of tokens are made available to the investors, 2% will be reserved for bounties. In the case of all of the tokens being distributed, the 2% reserved for bounties will equal the amount of 331,633 DGT.

** The value of DGT will be fixed against ETH during the whole pre-sale and ICO period. 1 ETH equals 250 DGT. The price is based upon the average value of the EUR/ETH pair for the time period 2017/06/19 - 2017/07/19

The ICO will have a **token reward system** that will grant the **earlier contributors** an opportunity to acquire **more** tokens for the same cost. This will be set up as follows:

Token distribution priority	Token amount	Percentage rewards
1st batch	3,750,000	15% (562,500 additional DGT)
2nd batch	3,750,000	10% (375,000 additional DGT)
3rd batch	3,750,000	5% (187,500 additional DGT)
4th batch	3,750,000	-

Each batch of tokens (and their corresponding rewards) will be available after the previous batch has been distributed.

In total there will be 16,125,000 DGT tokens available in the ICO sale. The DigiPulse team will **not hold any tokens from the ICO** - all of those are made available to contributors!

Token distribution limitations

The tokens **have not been** and **will not be registered** under the United States Securities Act of 1933, as amended (the “Securities Act”), and **may not be offered or sold** in the United States or to or for the benefit of US persons (as defined in Regulation S under the Securities Act) unless they are so registered, or an exemption from the registration requirements of the Securities Act is available. One such exemption allows the resale of tokens purchased for their own account and for investment purposes only by investors who (i) are not otherwise affiliated with the DigiPulse.io and “APNIKA” LLC, (ii) have been exposed for some time to the economic risks that ownership of tokens entails, and (iii) are not part of the distribution of the tokens.

Bounty distribution

DigiPulse will reserve 2% of the total DGT pool for bounties. The bounty reward distribution will be set up as follows:

- BitcoinTalk translations for announcement: 20%
- BitcoinTalk signatures and avatar : 20%
- Quality content & referral campaign: 30%
- Twitter campaign: 30%

Initial Coin Release - DGP

All coins mined up until the initial release are split proportionally to the token holders at the end of the ICO. An estimated amount of coins mined till this point is around 1,000,000 DGP.

Adding DGP to exchanges will follow after we introduce subscriptions to the DigiPulse service with coins and they are made available for public mining.

By receiving DGP coins as a payment for subscription, DigiPulse will be able to circulate them back to customers through cryptocurrency exchanges ensuring that they are available to users who do not mine them, thus creating a consistent alternative option for the market to pay for the service.

DGT and DGP are not the same. DGP will be issued proportionally to the total amount of funds collected during the ICO. They will be distributed among the holders of DGT and will have to be sent/stored to a DigiPulse wallet for redemption. DGT holders will have to send funds into a DigiPulse wallet to receive their share of the pool profits. DGT will be exchanged like any other asset or token.

DigiPulse coin (DGP) characteristics

Algorithm	CryptoNight
Block time	180 seconds
Difficulty retarget time	EACH BLOCK
Reward retarget time	EACH BLOCK
Total amount of coins	10,000,000
Coin ticker	DGP

Mining

The protocol used for the DGP coins is CryptoNote³, which currently is mineable only by CPU and GPU, thus preventing ASIC miners who would otherwise dominate the mining process.

Anyone who mines coins through the pool set up on DigiPulse will be eligible for a free monthly service subscription upon providing a minimum of 10 Hashes per second every month (based on the average monthly calculations). This is done in order to increase the value of the coin and give additional benefits to the token holders. In addition, it will be easier for people not familiar with the blockchain technology to participate in the mining process, thus popularising the DigiPulse coin amongst people who subconsciously see a barrier to start using cryptocurrencies, due to a lack of understanding of these possibilities.

The source code of the nodes and the pool will be published simultaneously when listing the coin on the exchanges and sending the initially mined coins to the token holders.

Shared pool for DGT holders - “Passive Mining”

Every block found on the DigiPulse pool, will be proportionally split across miners. The fee of the pool is set at 12% from which 10% will be split pro-rata to the token holders who will submit their DGT wallet address to the DigiPulse pool platform, thus confirming that they are in the possession of the mentioned token amount. The remaining 2% will be kept for DigiPulse as an additional source of income to facilitate the operations of the service. **The pool commission will be split only amongst those who provide their wallet address on the platform.** The possession of DGT will be beneficial from two aspects - an increasing value of the token and a passive increase of the amount of coins. The mined coin distribution will happen after a block has been found and the payouts will happen after the minimum threshold has been reached.

³ <https://cryptonote.org/>

The “**passive mining**” works by allowing token holders to gain a share of the total mined pool. Example - if there are 5 token holders, each owning 200 DGT tokens (1,000 DGT in total) in the DigiPulse system, then the 10% pool fee will be distributed based on the percentage of the token amount at that moment in the system (in this case - $200 \text{ DGT} / 1,000 \text{ DGT} = 20\%$ of the 10% pool fee). If a token holder wishes to sell DGT (or store them anywhere else), leaving only 4 token holders, the total amount of DGT in the DigiPulse system drops to 800 DGT, increasing the share from the 10% fee pool ($200 \text{ DGT} / 800 \text{ DGT} = 25\%$). This is used as an incentive to use the DigiPulse service and to let people gain DGP without actual mining by utilising the tokens that are bought during the ICO.

Raised fund usage

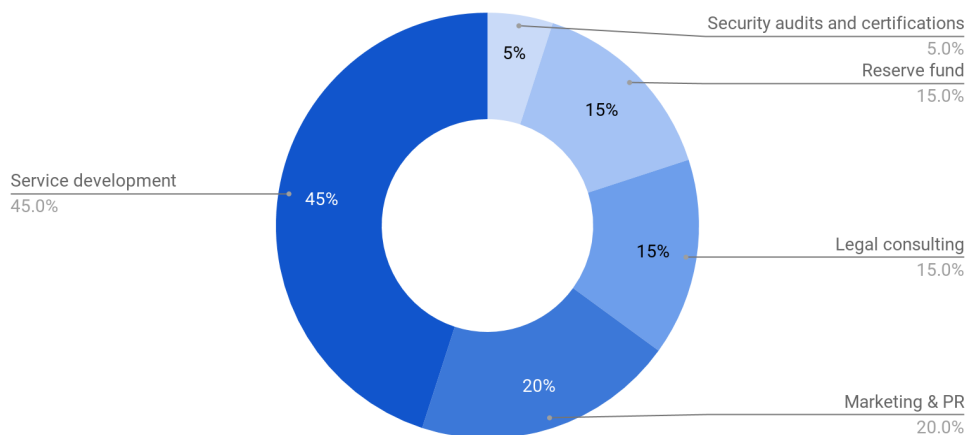
Because DigiPulse, first and foremost, is a startup, we feel obligated to use the best practices that are in place which are transparency of the team, the raised fund distribution and the overall plan and state of the project. DigiPulse is going to release **quarterly statements** on the fund usage and the progress of the project. This will ensure the transparency of operations and the secure custody of the funds.

DigiPulse has already acquired the attention of investors as a startup, but our team came to the conclusion that before we take on venture capital and similar investments, we want to bring this idea to the community who will be the real users of this service.

Distribution

The minimum cap for our project is set at 8,000 ETH⁴. The hard cap for our project is set at 60,000 ETH. This will provide the DigiPulse team with a runway of 5 years in which the infrastructure for the service will be set up and the project will be led to a profitable company. By raising this amount, we will be able to fully develop and deliver the service to the community without interruptions, as opposed to having to raise the funds necessary through investor talks and multiple funding rounds.

The funding received from the ICO will be roughly distributed as follows:



⁴ If the minimum cap will not be reached, the funds will be re-distributed back to their respective wallets, minus the transaction fee. This is only in effect for the funds raised during the ICO, not the pre-sale.

Escrow and fund storage

DigiPulse **will not** have an escrow in place for the project. By conducting a research on previous ICOs, we feel that the escrow management can be (and sometimes is) closely related to the original project creators which does not add an extra layer of credibility and the escrow itself can become redundant.

DigiPulse is going to keep the raised funds in the respective cryptocurrency wallets and is going to exchange them for fiat currencies based on the publicly available quarterly plan only to ensure that the necessary operating costs of the company are covered. We believe in the concept of cryptocurrencies and we suspect that there should be an increase in value, hence the funds will be left unchanged, which in the future could provide additional income and sustainability to our project.

Roadmap

- Q1 2017
 - Market research (buyer persona identification, initial public recognition);
 - Service development;
- Q2 2017
 - Service development to reach alpha state;
 - Preparation for the ICO;
- Q3 2017
 - ICO launch;
 - Raise awareness of the service;
 - List DGT on exchanges;
 - Hire required talents (C++ dev, Ruby/Node dev) to finalise the cryptocurrency aspect of the product;
 - Hire 2 marketing specialists doubling down as sales people to set up a campaign plan, to target the audience and perform B2B sales.
- Q4 2017
 - Public launch of the service;
 - DGP release and listing on exchanges;
 - In depth marketing campaign to popularise the service and concept;
 - Talks with lawyers and insurance brokers to offer service as an upsell;
- Q1-Q2 2018
 - Public release of the API to allow companies to query against our database to find the inheritor.

The Company

DigiPulse was launched by “APNIKA” LLC in Riga, Latvia in 2016. The concept came from the Co-founder Dmitry Dementyev-Dedelis who has gained in-depth fundraising, psychological and technical experience from his previous experience working as the CTO for the company Funderful. The Idea originated from working extensive hours for a three year period, thus compromising health to the point, where the need for such a service arose. The idea gained an additional spin when presented to the Co-founder Normunds Kvilis, who has a banking background and added the cryptocurrency aspect to the initial idea of storing memorabilia and valuables.

The idea came from the fact that we as humans are vulnerable to mortality and if anyone of us were to pass away, it wasn't quite sure how the rightful inheritors would gain access to everything stored online. Of course, not anything we accumulate can be considered as “valuable”, but when it comes to assets that contain monetary value, it seems careless not to pass such things on. Hence the focus on cryptocurrencies.

Team

Normunds Kvilis, Co-founder & CEO

Before focusing on DigiPulse, Normunds acquired a master's degree in economics and was an analyst in a leading Scandinavian bank, focusing on financial market analysis and investment opportunities. Later, he took on the role of an IT project manager, with the focus on leading developer teams towards a bank merger. Cryptocurrencies have been on his radar for quite some time and as investor focus is starting to shift toward this investment tool, also new problems and opportunities arise.

[Linkedin](#) | [Facebook](#)

Dmitry Dementyev-Dedelis, Co-founder & CTO

Before the idea of DigiPulse and the fact that we have half of our lives online with all the assets and valuables stored there, Dmitry was working in the

fundraising sector for universities. By understanding the logic behind alumni giving and gamification, and seeing it from the IT perspective, he has gained the knowledge to merge these two worlds together - digital realm and real world behaviour. To gain a better knowledge about behaviour of people and the cognitive processes, he is currently managing a part time BSc in the field of Psychology.

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