



# CryptoWorkPlace

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# CryptoWorkPlace

*“Protect what is important”*

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## White Paper ver. 1.8

01/14/2018

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# INTRODUCTION

[CryptoWorkPlace](#) - the world's first decentralized system based on a personal computer the size of a USB flash drive, providing unprecedented protection against hacker attacks, malicious programs and unauthorized access to data.

There are currently a few options on the market that allow you to protect your cryptocurrency wallet by keeping the keys in a separate device that connects to your PC. That being said, with the current rate of technological development, even if your PC has an up to date anti-virus, one can never be fully confident that it is impenetrable. Hackers can come up with new ways to penetrate your system faster than anti-viruses can come up with the right "medicine" for the attacks. Before long, you can lose access to your cryptocurrency wallet, and thus your money.

The CryptoWorkPlace (CWP) Micro-PC is not a secure key storage, it is a fully independent PC with an operating system and applications; It only needs a monitor, keyboard, and mouse from an external computer. The security of this external computer is irrelevant since it only is used to visualize the information. All of the actual processes take place in the secure internal memory of the CWP Micro-PC.

Since the CWP is a PC and not just a cryptocurrency wallet, it offers the user many useful features. One can get a variety of useful apps such as a multicurrency wallet, access to a few different trading platforms at once, chat channels, and other services which can make life much easier. All of these available services can be conveniently combined on one homepage panel. Thus you are able to move all the vital information you desire to the forefront of the abundance of useful features that are available.

At the core of the CWP ecosystem is a mechanism for automating contract-based functions and distributed registry of statuses.

## 1. PROBLEM

### 1.1. STATISTIC OF LOSSES FROM HACKING OF COMPUTERS OR CRYPTOCURRENCY WALLETS

Each and every day there are a huge amount of activities in the cryptocurrency world. Pre-ICO for hundreds of thousands of dollars and ICO for tens of millions are becoming extremely popular. Those behind such projects use cryptocurrency wallets from established providers, but the protection an average investor gets is quickly

falling to zero; either the site of the project is on sketchy hostings or the wallets are held on already compromised computers. 2017 had an abundance of examples where the wallets of projects were compromised and hackers were able to get \$2M, \$6M, and even \$8M during the height of the ICO.

## 1.2. EXAMPLES OF THE LARGEST ICO HACKS IN 2017

The most significant hacking occurred during the ICO of CoinDash. On July 17, 2017 at 16:30 the founders reported that their site was hacked and the wallet address was changed. In the first five minutes the perpetrators got more than \$6M and when all was said and done, the losses exceeded \$8M.

CoinDash.io  
@coindashio

Website has been hacked.

Язык твита: английский

16:13 - 17 июл. 2017 г.

994 ретвита 686 отметок «Нравится»

183 994 686

According to a Chainalysis report

(<https://blog.chainalysis.com/the-rise-of-cybercrime-on-ethereum/>)

the world is seeing a meteoric rise in cybercrime targeting ICOs. In June 2017 alone investors loses from such actions reached \$100M while in August they were above \$220M.

Type of attack	Description	Value of losses (\$M)	Number of victims
Phishing	The gaining of sensitive information (logins, passwords, etc.) by faking communications from reliable sources	115	16,900
Exploit	The use of computer programs, pieces of code, or other commands to carry out an attack	103	11,000
Hack	Gaining unsanctioned access to a computer system	7.4	2,100

Ponzi Scheme	Financial deceit, a pyramid scheme	0.004	260
TOTAL:		225.4	30,260

This way investors are at risk from both sides: they can lose the money they invested and the contents of their cryptocurrency wallets.

It is obvious that no technical solutions can prevent voluntary participation in a Ponzi scheme, but total losses from that kind of crime are relatively small.

### 1.3. MELTDOWN AND SPECTRE - HARDWARE VULNERABILITIES OF ALL MODERN PROCESSORS

Vulnerabilities Meltdown and Spectre (<https://meltdownattack.com>) were independently found by researchers of Google, Cyberus Technology, and Graz University of Technology in the middle of 2017 and were published on January 4, 2018.

The Meltdown attack allows unauthorized access to read privileged memory used by the kernel of operating systems. Intel and ARM processors are vulnerable to the attack, while AMD processors are not.

The Spectre attack allow a program to read random areas of memory, including ones used by other applications, which breaks memory isolation between programs. Intel and AMD processors are vulnerable to the attack, as well as some ARM processors.

Thus there is no computer system safe for these attacks - so there is a probability that users may lose access to their important data, including wallets, in any second.

It is needed to replace hardware, completely update the operating system, and re-compile all software with new compilers replacing vulnerable code to fix these issues. It is clear that it is not enough to use traditional approaches, such as patches, to prevent these attacks - as the vulnerabilities are on the hardware level and they completely destroys assumed notion of sandboxes.

## 2. CRYPTOWORKPLACE: THE SOLUTION

### 2.1. THE SOLUTION

The CWP user can protect themselves from these different types of attacks. A common recommendation for maximum security is to use a separate PC running

Linux with all applications that have access to the internet removed for your cryptocurrency wallet uses. However it is not enough anymore with recently discovered Meltdown and Spectre vulnerabilities.

The CWP Micro-PC serves exactly that purpose but with the advanced security infrastructure allowing to access the Internet and use crypto wallets without having to worry about hackers. If that wasn't enough, all these features come in a portable USB drive size and can be taken with you wherever you go and used whenever you need it.

The CWP Micro-PC uses an updated kernel of operating system and applications, recompiled with new compilers, to prevent Meltdown and Spectre attacks. Moreover, all important information is kept not in random-access memory, which may be the subject of said attacks, but in the built-in crypto-storage.

## 2.2. TECHNICAL SOLUTION

CWP is a decentralized ecosystem based on a blockchain technology that includes a Micro-PC that enables applications to run in a secure, isolated environment, special software, a set of UniDefense Web portal services designed to organize protection against threats on the network, and a distributed registry of statuses.

The user gets access to the following functionalities as soon as he registers on the UniDefense Web portal:

- Attaching the device to its inventory record;
- Switching on two-factor authentication and its type;
- Application store (wallets, trading programs) and update service;
- Setting up a list of third-party Websites and network services accessible from the device;
- Setting up geographical zones to set up VPN connections from the device;
- Blocking the device in case of loss and remote data erasing.

The CWP Micro-PC uses a modern high-efficiency processor and has its own memory. It is connected to a donor computer through a USB connection, which becomes its power source. The donor computer sees the Micro-PC as a regular network card.

A secure tunnel is created over the network connection (VPN-tunnel) and the user communicates with the Operating System of the CWP Micro-PC and applications installed there through this VPN-tunnel. As the Micro-PC is powered on, it checks that the device is not blocked on the UniDefense Web portal and opens the authentication window for the associated user. To get access, the user should provide, in addition to the standard credentials (username / password), a second

authentication factor that he specified in the UniDefense settings. Such second factor may be one-time code received by email, SMS-message or a special mobile application (for example, Google Authenticator). Thus isolated environment and access mechanism eliminates phishing possibility.

The Operating System of the *CWP* Micro-PC is located in write protected memory section and doesn't allow to make any changes neither by user nor by harmful programs. Necessary software may be installed and updated only through the *CWP*. The programs, not signed by *CWP* Web portal key, can not be started or modified. Thus the isolated environment and electronic signing of programs eliminate exploits possibility.

The programs are executed in the environment isolated from the computer-donor. User data are encrypted on the device (by user's choice) that creates reliable defense from hackers.

The *CWP* Micro-PC uses built-in 4G-modem or WiFi-adapter to connect to the Internet, establishing a VPN-connection to the server specified in the settings. There are multiple connection points for encrypted traffic in different countries, so it is not limited by geography. Any traffic around VPN is cut off.

In case of loss or damage of the device *CWP* user can block the device and remove all data saved there, which would be executed as soon as the Micro-PC would be connected to the Internet. A new device may be attached to your account restoring all settings and all programs from the previous device.

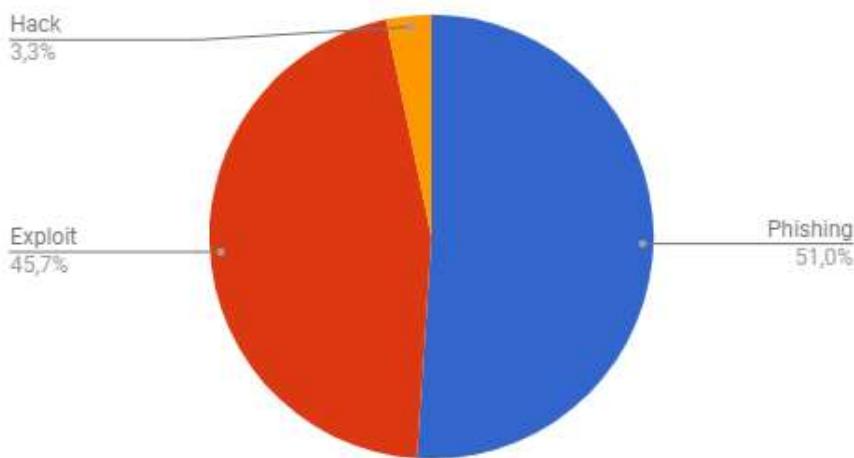
The device has built in crypto-storage for transaction signing to secure crypto-wallets private keys.

The pre-install browser allows to open only the sites from the white list of addresses on the UniDefense server to prevent phishing attacks.

Thus, returning to Chainalysis data about cyber crimes, we may see that *CWP* prevents all existing security problems for crypto-wallets:

- Phishing - by using the pre-configured browser and applications, signed by a special key;
- Exploits - by working in an isolated environment and by signing programs;
- Hacker attacks - by using built-in unbreakable crypto-storage.

## Losses after the actions of intruders



## 2.3. PRODUCT HISTORY SINCE 2008

The Micro-PC CWP was first thought of in 2008. In 2009 the product was patented and work started on the prototypes for corporate clients.



**US PATENT & TRADEMARK OFFICE**  
**PATENT APPLICATION FULL TEXT AND IMAGE DATABASE**

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(1 of 1)

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United States Patent Application **20160196154**  
Kind Code **A1**  
Sarukhanov; Wagan ; et al. **July 7, 2016**

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MICROMINIATURE PERSONAL COMPUTER AND METHOD OF USING THEREOF

**Abstract**

A microminiature personal computer that is connected to external devices using standard interfaces for information input and output. The microminiature personal computer has an interconnected processor, a memory, a security module, a network module, and connectors. At least part of memory should be non-volatile to keep operating system, drivers to work with external devices, programs and data. The microminiature personal computer does all its processing and all its programs are running inside its memory while external computing device is used only for information input and output through a connector and a windowing system thus ensuring security of both systems and lack of unauthorized interaction between them.

---

Inventors: Sarukhanov; Wagan; (*Moscow, RU*) ; Komov; Igor; (*Moscow, RU*) ; Podelko; Alexander; (*Stamford, CT*)

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Applicant: Name City State Country Type

In 2010 the patent process was started in the USA with the expertise extended in 2016.

From the beginning of the project in 2008, there have been six different versions of the Micro-PC with different features and uses. At the time it was called the uPC.

2009



ARM ATMELO AT91RM9200, 256 MB, 512 GB,  
RTC w/battery  
OS: Linux  
Application: system admin PC, thin client with pre-installed VPN

2010



ARM ATMELO AT91RM9200, 256 MB, 1 GB,  
Backup Battery, RTC w/battery  
OS: ALT Linux  
Application: system admin PC, thin client with pre-installed VPN, access key to remote server or database, portable workspace

2011		ARM ATMELO AT91RM9200, 256 MB, 1 GB, RTC w/battery OS: ALT Linux Application: portable workplace with pre-installed VPN and access key to remote server and medical database as a part of the automated health monitoring system
2012		ARM TI AM3359, 512 MB, 1 GB, Wi-Fi, Backup Battery, Graphic LCD OS: Debian Linux Application: access key and remote workplace as a part of the health monitoring system, researcher workplace for remote knowledge bases
2015		ARM Allwinner A10, 512 MB, 2 GB, Wi-Fi, microHDMI, Audio OS: Debian Linux, Android Application: portable workplace with business and game applications
2016	Photo is omitted due to NDA	ARM TI AM3359, 512 MB, 1 GB, Backup Battery, Graphic LCD OS: Debian Linux, Android Application: portable workplace for client-server applications, for example, 1C Enterprise, 1C Accounting, or 1C HR

*Note.* There are only printed board photos in the table above without devices exterior due to customer requirements and signed Non-Disclosure Agreements (NDAs).

## 2.4. USING OF THE PRODUCT IN CRYPTO-WORLD AND ITS MODIFICATION

The existing product – uPC – was used to create the CWP Micro-PC. uPC was designed to secure personal data and remote connections. Linux kernel modules

were re-worked; all modules and applications, not-safe from the intrusion point of view, were removed; update system was modified; and the hardware non-breakable storage *Rutoken S micro* was added.

*Rutoken S micro* is a micro-module designed for safe two-factor user authentication and secure storage of encryption keys, digital signature keys, digital certificates, and other confidential information.

*Rutoken S micro* implements the following functions:

Function	Description
Authentication	Two-factor authentication for access to the device, Operating System, servers, and applications (depending on settings)
Keys secure storage	→ Keys usage for encrypting inside the device without a possibility to expose private keys → The keys, generated on the micro-token, cannot be copied
Securing personal data	→ Securing of electronic communications: email encryption, digital signature → Securing access to computer and local network domain → Possibility to encrypt data
Usage	→ Storing business information, users personal information, passwords, encryption keys, digital certificates, and any other confidential information → Single identification device to access crypto-wallets, digital signature, authentication for access to wallets and applications

*Rutoken S micro* module support the following international standards:

- ISO 7816-3 — protocol T=0
- ISO 7816-4 — internal device and commands
- ISO 7816-8 — cryptography
- ISO 7816-9 — lifecycle

In addition to modifying hardware, we redesign the online services of the UniDefense Web portal, which allows remotely configure one or several CWP Micro-PCs for the needs of a user or a group of users. In the beta version, the portal is made using traditional technology, however, at one of the stages of the project's road map, a decentralized blockchain platform will be launched that ensures the storage of states, transactions, authorization and automation of contract execution.

## 2.5. UNIDEFENSE ONLINE SERVICES SUBSCRIPTION

Subscription is done for each device in user's personal cabinet. After subscribing, the following functionality is available to the user:

- Two-factor authentication
- VPN-tunnel configuration
- Application store
- Application restore to a new device

Two-factor authentication additionally secures the device and the data in the user's personal cabinet from unauthorized access. For that the user, in addition to the username and password, need to enter a code, which he gets by one of the following ways: email, SMS-message, or mobile application. The two-factor authentication is used by both the device and user's personal cabinet.

The VPN-tunnel service allows creating a secure channel between the device and the destination point. The channel is encrypted and secured from interception. Sending information through such channel is secure and anonymous. The user may select the traffic destination point in his personal cabinet.

Applications can be installed on the device only through the application store. It allows to eliminate a possibility to install a harmful program and to secure data on the device. If the device is lost or stolen, the user can block the device in the personal cabinet and restore applications on a new device.

When working with third-party blockchain projects, native subscriptions are used. For example, when working with the Playkey game console, you are using the subscription of this project, and you pay for the subscription through the cryptocurrency wallet of the CryptoWorkPlace blockchain.

## 2.6. PRODUCT OPTIONS

Name	Composition	Uses
CWP	Micro-PC CWP and a subscription to the online service (for a month, quarter or year)	An individual Micro-PC unit with an online subscription to an online service that allows you to recover passwords, block a lost device, or change settings for it.
CWP DUO	Two CWP Micro-PCs with a common key for	A set of two CWP Micro-PCs for two partner users. Both the CWP have preset

	secure communication + a subscription to the online service (for a month, quarter or year) + blockchain based online service	the same encryption key, allowing to make transfers between crypto wallets and establish a secure direct connection for secure communication with the integrated messenger. It is possible to manage one wallet from two Micro-PCs
CWP CORP	A set of 10 CWP Micro-PCs with an annual subscription to the online service	A corporate set of 10 CWP Micro-PCs with an annual subscription to the online service, which allows you to recover passwords, block a lost device, configure applications
CWP CORP100	A set of 100 CWP Micro-PCs with an annual subscription to the online service	A corporate suite of 100 CWP Micro-PCs with an annual subscription to online services, which allows you to customize, activate and lock applications in addition to restoring passwords and locking lost devices
CWP GAME	Micro-PC CWP + client software for cloud games + blockchain based online service	Individual Micro-PC as a gaming console for the cloud gaming

The project team has the competence to use modern technologies AI and ML, which will accumulate and analyze usage statistics to improve product resistance to malicious attacks. In this connection, the product will be continuously upgraded, the number and quality of UniDefense online services will continue to grow, the CWP performance will be increased through the use of advanced BOM (Bill of Materials) and optimization of the modules of operating system kernel.

**CWP** - this is the standard solution for one user, ensuring the protection of the Wallets and Keys, as well as securing access to the Internet from any untrusted environment. CWP has an additional router mode, which allows you to securely connect applications of your smartphone from an untrusted environment with the resources that are of interest to you. In this mode, simply plug CWP to a standard charger with USB. In addition, CWP can be used as a gift with a pre-installed wallet and funds on it.

**CWP CORP** is a solution for corporate clients or groups of users with a single administrative panel that allows you to configure each of the CWP separately or together based on a common security policy. A security policy may include black and

white lists, activating or blocking applications, installing applications and updates from the app store.

**CWP DUO** is the most interesting product offered by our project for today. A set of two CWP Micro-PCs that are configured to work together with one shared or two separate wallets. In the mode of working with separate wallets it is possible to transfer funds between them in one click without giving details of the transfer. To accompany (commenting) money transfers, you can use the built-in instant messenger with an encrypted communication channel. With such a set of devices, two people located in different parts of the world in the untrusted environment (unknown network, foreign Wi-Fi), can safely carry out transfers of funds to each other by pressing a button or by a timer or by smart-contract when the device is turned on. It is enough to connect CWP to a standard charger with USB.

**CWP GAME** To increase the audience using CWP, the project team offers a Micro-PC with client software of third-party blockchain projects that implements a game console for cloud gaming. Possible variants of game consoles Nvidia, GeForceNow, Steam and Playkey. This version of the application allows gamers to abandon the purchase of expensive personal computers in favor of an inexpensive compact PC that provides streaming service. Gamers will be able to experience the following benefits:

- the ability to play anywhere
- the ability to play on any device (Windows PC, Mac, TV)
- tenfold savings compared to the purchase of gaming equipment

Owners of each version of CWP can take advantage of additional features of the system. After activation in the personal cabinet of the UniDefense portal, additional software is installed on the Micro-PC, after which it becomes the node of the CryptoWorkPlace blockchain, along with standard solutions for nodes. The user will be able to save in the blockchain own information, create a backup copy of the programs installed in the Micro-PC or leave encrypted notes, without fearing to permanently lose them in the event of a breakdown or loss of the device, because this information permanently and invariably is placed in distributed storage, whose nodes are all participating devices.

For the version of the CWP DUO, knowing its unique identifier, one user can forward an arbitrary message to another, being sure that the transmitted information will not be tampered with and distorted, and the recipient will receive a message when connecting his device to the network, which can serve as an accompaniment to the automatic execution of smart- contract.

A participant in the ecosystem can at any time stop participating in the blockchain, return your device to its original state and stop receiving messages from other users or send your own. However, already placed by that time the data will always be available for download to its Micro-PC.

For the CWP GAME product version, if you enable the work with the blockchain platform it will automate the payment of online subscriptions of third-party services with automatic conversion of tokens from various blockchain projects.

### 3. PROJECT ECONOMICS

As was mentioned earlier, the team had worked on the Micro-PC project under the name uPC for a number of years, addressing problems of IT security for corporate clients. To tailor these security advances to the cryptocurrency community, it will be necessary to produce a batch of a few tens of thousands CWP units. This is why we are offering all interested persons an opportunity to join in on the financing, which would give them access to get project tokens with discounts from 10% to 40% depending on the time of participation and a product with a 50% discount. For this we will be selling the CWP token in two parts.

The first stage of the Token Pre-Sale will raise funds for marketing and preparation for the main stage of the process. It will also go towards releasing the first batch of the CWP Micro-PC and the beta version of the UniDefense Web portal.

The second and main stage of the Token Sale plans to release the experimental batch of the CWP and offers to the crypto community of the first samples of the product in the Light version.

To attract funds at these two stages, a smart-contract will be developed and available on the Ethereum platform. The token is compatible with the ERC20 standard. The release of tokens occurs at the time of sale, and is limited to 500,000,000 CWT.

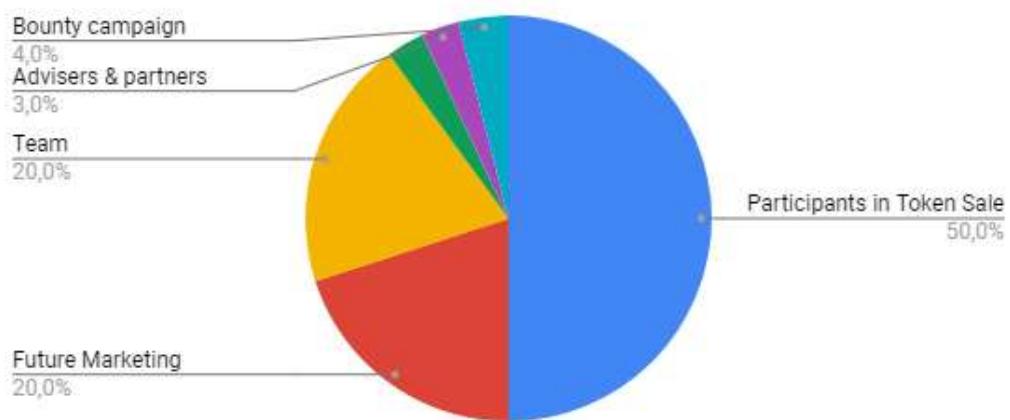
At the first stage, a CWT-P token will be created especially for the presale. At the moment of start TGE (Token Generation Event) participants can exchange the CWT-P token to the primary token CWT at 1 CWT-P = 1 CWT.

#### **General Parameters:**

Token	CWT
Circulation	500,000,000
Currency accepted	BTC, ETH, LTC

After the two stages of raising funds, the tokens will be distributed as following:

Participants in Token Sale	50%
Future Marketing	20%
Team	20%
Participants in Token Pre-Sale	3%
Advisers & partners	3%
Bounty campaign	4%



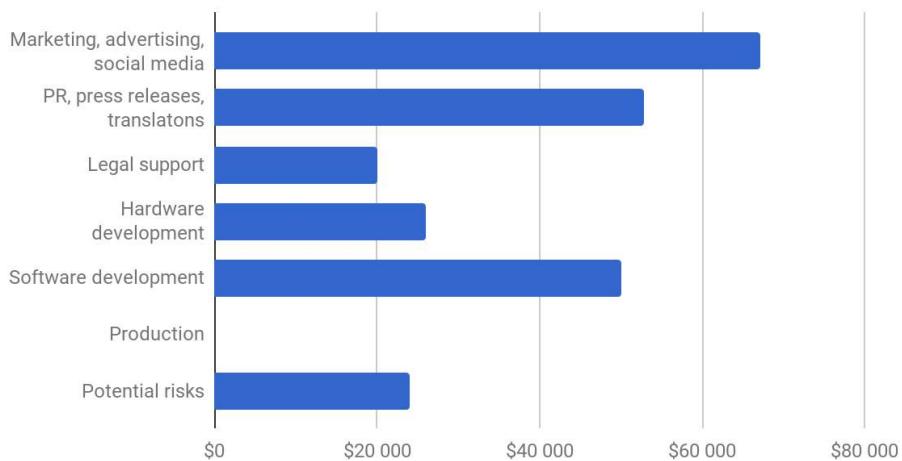
### 3.1. TOKEN PRESALE

Dates:	January 1, 2018 - January 31, 2018
Token:	CWT-P
Soft cap:	180 ETH (\$240K)
Hard cap:	1351 ETH (\$1.8M)
Tokens available:	15,000,000 (3%)
1 CWT-P =	\$0.12

The distribution of funds from the presale has two potential scenarios:

*Scenario 1.* In the case of attracting the minimum amount required (soft cap), the launch of manufacturing of an experimental batch of Micro-PCs is not possible, since all the funds raised will be spent on preparing the launch of the main stage.

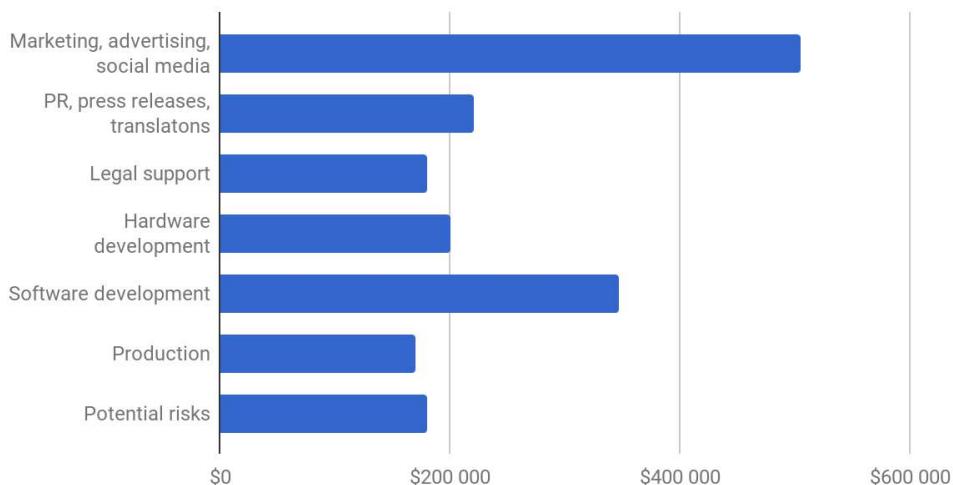
### Token Pre-Sale soft cap



**Scenario 2.** If an amount between the soft cap and the hard cap is reached, there will be a first release batch with 100 CWP units. The amount of batches will depend on the amount over the soft cap according to the below table.

Attracted Amount by the Token Presale Participants	2M CWT	3M CWT	4M CWT	5M CWT	10M CWT	15M CWT
	\$240 000	\$360 000	\$480 000	\$600 000	\$1 200 000	\$1 800 000
The number of batches of the pilot series of 100pcs	0	0	1	2	4	7

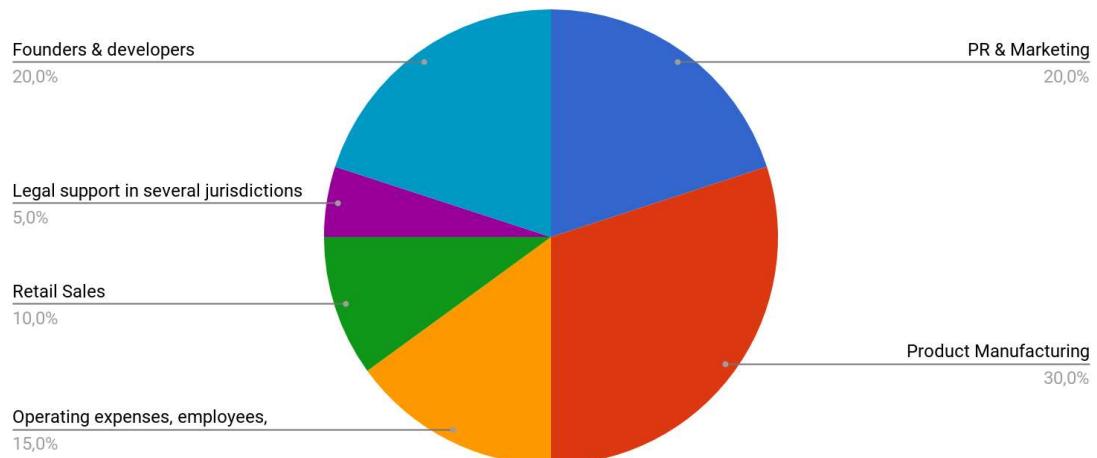
### Token Pre-Sale hard cap



## 3.2. TOKEN SALE

Dates:	<i>March 1, 2018 - March 31, 2018</i>
Token:	<i>CWT</i>
Soft cap:	<i>1802 ETH (\$2.4M)</i>
Hard cap:	<i>35,586 ETH (\$47.4M)</i>
Tokens Available:	<i>250,000,000 (50%)</i>

The second stage will raise no more than \$47,400,000 from the TGE (Token Generation Event) participants. The distribution of the funds raised during the Token Sale will be as following:



**30%** of the funds raised during the TGE we plan to spend on the launch of production on an industrial scale. 70% of this amount will be spent for the purchase of components, manufacture of printed circuit boards and their assembly. 20% will go to pay for the work of third-party developers from Europe, USA and Asia. 10% - for manufacturing production tooling, test equipment, warehousing services and logistics.

**20%** of the funds raised during the TGE we allocate for marketing in three regions Europe, the United States and Asia during the first year of the product's release to the world market. 80% of this amount will be spent on the product promotion in the United States, Japan, China and Singapore.

**20%** of funds raised will be spent on the salaries of our team. 30% of this amount will be spent on research in the first year-to-market, which include accumulation of statistics and the use of AI and machine learning to improve the level of product protection from malicious actions.

### 3.3. APPLYING DISCOUNTS WHEN BUYING TOKENS

Users who have purchased the CWT tokens, receive discounts whose size will decrease with increasing amounts attracted as follows:

Attracted Amount by the Token Sale Participants	Token Pre-Sale	Token Sale	Token Sale	Token Sale
	180 - 1351 ETH	1,8K - 3,6K ETH	3,6K - 13,1K ETH	13,1K - 32K ETH
Discount	40%	20%	10%	0%
1 CWT	\$0,12	\$0,16	\$0,18	\$0,20

### 3.4. APPLYING DISCOUNTS WHEN PURCHASING A PRODUCT

Owners of CWT tokens can purchase a product with a 50% discount on the price in a fiat currency. During the purchase of the product, the tokens spent on the purchase will be burned to avoid of a double income. Automatic burning of used tokens will lead to an increase in their value, if the project can maintain the popularity of the product.

Product Options	Price		
	USD	Discount 50%	CWT=\$0.2
CWP + Monthly Subscription	\$300	\$150	750
CWP + Quarterly Subscription	\$485	\$243	1 213
CWP + One year subscription	\$1 280	\$640	3 200
CWP DUO	\$1 480	\$740	3 700
CWP CORP	\$13 300	\$6 650	33 250
CWP CORP100	\$120 000	\$60 000	300 000

## 4. DEVELOPMENT PLAN

### 4.1. PROJECT ROADMAP

December-January 2017	March 2018	April 2018	Q2-Q3 2018	Q4 2018
Token Pre-Sale	Token Sale	Testing	Production	Sales
Initial Production Batch	Launching of the Web Portal beta	Testing of the product in independent laboratories	The start of mass production and launching of technical support services	The start of sales in USA, Europe, and Asian markets.
Creating a CWT-P token and launching its smart contract	Creating a CWT token and launching TGE's smart contract	Opening of the USA, Japan and Czech Republic offices	Launching of the UniDefense Web portal and blockchain	Launching of customer service desk

### 4.2. PRODUCTION PLAN

The anticipated company structure includes offices in a few countries:

- Europe Office — Prague (Czech Republic)
- Asia Office — Tokyo (Japan)
- North America Office — New York (USA)
- Production Office — Guangdong (China)

The production of circuit boards, ordering of electronic components, the assembly, and the loading of test firmware will be done at the factory of ICAPE Group in Guangdong.

Installation of micro-modules Rutoken S micro on the microcontroller boards will be performed by the European division, here the product firmware will be loaded. To ensure these works, there will be protection against unauthorized access to production areas where additional components and software modules are stored and installed.

## 5. TEAM

### 5.1. THE FOUNDERS AND DEVELOPERS



[Linkedin](#)

#### CEO Yoji Kishi

Rare type of High-edge Japanese technology specialist with wide international marketing experience.

Shin-Nippon Research (Hong Kong) Co., Ltd.

Vice-President

International Society of Stem Cells Development , Director  
5hz Medical Supplies (Xiamen, China) Co., Ltd.

Vice-president

Kintaro Cells Power Co., Member of Board of Director

Ryukyukan International Kobudo Karate Federation, Honor Member



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#### CVO Alexei Gladkov

Kintaro Power Cells Japan President

MapMess Inc. Regional Director

Founding director of the research company AV-Cells

Singapore

30 years of experience in running own business

20 years of doing business in Singapore and Japan





### CTO Maxim Maslich

Microsoft Certified Professional

Microsoft Certified Technology Specialist Exam 511

Blockchain and smart contracts developer

An expert in the management of the software development process, the construction of distributed, highly loaded and secure systems

Development of transport monitoring systems (cargo, passenger cars, special equipment, passenger transportation, weight control, production line control, taxi park automation) for Alrosa, GAZPROM, Lukoil, Rusal, RZD, Satori, Autoline, city taxi.

[Linkedin](#)



### Arthur Enokyan

Software Engineer 1st category

Full-Stack JavaScript Senior Developer

Certified Middle End Android Developer

Certified Middle End iOS Developer

Expert in developing Highload applications

Development of special software for major retailers

Cryptography, electronic document management





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### Anton Polyansky

Head of Hardware Production

Hardware Engineer

Embedded Software Engineer

Microcomputer Systems Expert

Development of circuit solutions, trace of printed circuit boards and development of embedded software for thermal imaging devices

Development of circuit design solutions, trace of printed circuit boards for low-level devices of the Quinta music recognition system

Development of circuit solutions and trace of printed circuit boards for Smart House devices

Development of microminiature biometric sensors and processor control system for bioelectrical upper limb prosthesis

Development of embedded data transmission systems based on Wi-Fi, GSM and Bluetooth technologies



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### Denis Kuznetsov

Lead Mathematician, Senior Architect Developer

Embedded Systems Programmer

Expert in Machine Learning and AI

Development of an agent for the conduct of non-targeted dialogue in the banking system

Development Telegram-bots with AI support

Embedded Software Development for Quinta Music Recognition System Devices

Co-author of a patent for music recognition algorithms



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### Anton Maslov

Senior System Analyst, PHP-Developer

Optimization and automation of DAICHI logistics business processes

System analytics of multimodule high-loaded systems with various integrations for METRO C & C, Lenta

The development of a supply planning system for TOC (Theory of Constraints) for the production of IKEA, integrated with 1C

Product development and positioning management

## 5.2. ADVISERS



**Alexander Podelko, Ph.D., MBA**  
An expert in software development and testing  
Member of the Board of Directors of the Computer  
Measurement Group  
Oracle, Consulting Member of Technical Staff  
Hyperion, Distinguished Performance Engineer  
Aetna, Sr. Architect II

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[Personal site](#)

Alexander coordinates the sales and production of the product for the US market, the management of the project's branch in the United States, the interaction with major US partner companies that provide scientific and technical support for the project.

Alexander has 30 years of experience in software testing, which allows him to organize the interaction of the project with the largest players in the software testing market, such as QAMentor.



**Ruslan Pichugin**  
CEO & Founder SandCoin  
Founder Yocto Games  
Collaboration with Chillingo, Electronic Arts, Microsoft Studios

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Ruslan is the head of several projects, one of which recently successfully completed the ICO.

Ruslan is a popular blockchain expert, lawyer and economist, all this allows him to oversee the important organizational, marketing and economic issues faced by the founders of the project.



### Alexey Lykov

CTO Playkey

Alexey is a technical specialist with 20 years of experience. He has extensive experience working with high-loaded systems. He develops platform solutions of any complexity.

Alexey is working on the development of the blockchain system in Playkey for 1.5 years. Manages the infrastructure of more than 1,000 video cards. Developed a unique solution for the mining of cryptocurrency on gaming platforms.

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[Linkedin](#)

Alexey's competencies help the project in the technical issues of TGE



### Wagan Sarukhanov

CEO Flexlab Ltd.

CTO uPCLabs Inc.

Blockchain researcher and expert

30 years of experience in contract manufacturing of electronics and software

More than 20 projects in various industries

Mentor

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Wagan's competencies help the project in the business development and technical issues of product development and manufacturing

## 5.4. PARTNERS

<b>ICAPE GROUP</b>	<p>ICAPE Group, headquartered in Paris, and production in China.</p> <p>ICAPE Group is one of the leading European companies producing and supplying printed circuit boards (PCBs) and custom-made technical parts manufactured in China.</p> <p><a href="http://www.icare-group.com">http://www.icare-group.com</a></p> 
<b>Partnet - Client</b>	<p>The factories of the company will organize the production of Micro-PC CWP, output control and download of the firmware.</p> <p>The Japanese company Kintaro Cells Power is an innovator in the field of cellular medicine, it is part of an international group of companies specializing in providing health and medical tourism services with an emphasis on serving the VIP segment.</p> <p><a href="https://cellspower.com">https://cellspower.com</a></p> 



## Partner - Product Testing

American company, a leader in software and hardware testing

<http://www.qamentor.com/>

Leading Vendor Winner Award 2017 <a href="#">► Read more</a>	Best Software Testing Services Provider & Excellence Award for Audit Services In US-2017 by TMT-News <a href="#">► Read more</a>	Leading Vendor Finalist Award 2017 <a href="#">► Read more</a>	Best Overall Testing Project - Finance Finalist 2017 <a href="#">► Read more</a>
CEO AWARDS 2017 WINNER	INTERNATIONAL - NICHE TECHNOLOGY COMPANY OF THE YEAR (FINANCIAL MARKETS), QA MENTOR, INC.	INTERNATIONAL - NICHE TECHNOLOGY COMPANY OF THE YEAR (FINANCIAL MARKETS), QA MENTOR, INC.	INTERNATIONAL - QUALITY ASSURANCE SOLUTION PROVIDER OF THE YEAR (FINANCIAL MARKETS) QA MENTOR, INC.

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