



# MARKNetwork

Blockchain Solutions

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[MARKNetwork](#) begins development of "MARK Blockchain" a Generation 3.0 Blockchain platform with a targeted release date of a ready-to-run prototype coming in late 4th quarter of 2018...

## Introduction

MARKNetwork in short, will establish itself as one of the leaders in this next wave of [Gen 3.0 blockchain](#) based applications with initial focus on building out its own highly anticipated blockchain "MARK". In addition developers will also simultaneously begin work on associated Gen 2.0 hybrid exchange "MARKSwap" to begin generating revenue...

Both "MARK" and "MARKSwap" will feature first and foremost security, speed and user-friendliness as well as energy efficiency. Use of Green Energy will be integrated into the project in the early stages by providing power from solar and wind technologies as well as any future advancements in this field. This will ensure that the consumption and stability of the network are both optimal. Surplus energy will also be offered and sold into the worldwide network of energy or other specialized Blockchain companies in co-operation.

[MARK Blockchain](#) will be a dedicated network of server nodes ensuring both smooth operation of the blockchain and confirmation of transactions. Development of the MARK blockchain will begin in September 2018 and initially will be self-funded. At the time of this release there are no immediate plans to launch a formal ICO or Initial Coin Offering, instead developers have opted to develop and grow MARKNetwork organically.

Scalability will also be a top focus with a minimum ability to process 300K up to 10M transactions per second with very low transaction fees estimated to be the equivalent of 0.0009 Euro (approximately \$ US 0,001) per transaction. Confirmation of transactions will be done through [Delegated Proof-of-Stake](#) (DPOS), due to the speed, efficiency, consensus and decentralized nature and will also support [Masternodes](#) as well as easy to use and deployment of smart contracts.

The [MARKSwap](#) exchange, will be a secure, fast, user-friendly cryptocurrency trading platform of the next generation. KYC (Know Your Customer), AML (Anti Money Laundering), CTF (Counter Terrorist Financing) and 2-factor verification will be just a few of the advantages that will be implemented in cooperation with all required regulatory institutions and act in conformity with the [EU GDPR](#).

A flexible interface, which will also be available as a stand-alone app for all major operating systems will allow inexperienced users to easily buy, sell or trade cryptocurrencies, the more experience a user has, the more options and charts users will have available to them.

MARK Blockchain will be fully integrated into the MARKSwap Exchange and will be tradable with all major cryptocurrencies including Bitcoin and Ethereum. Margin trading will also be another interesting trading option for experienced day traders, which of course involves higher risk. Another feature related to margin trading will be peer-to-peer lending. At a fixed interest rate, cryptocurrencies can be placed on loan for a few days at user-defined interest rates.

## Specifications

### Signing algorithm used for the MARK blockchain:

MARK developers chose to use the more advanced elliptic curves ([EdDSA](#)) signing algorithm [Ed25519](#), for better security than with ECDSA and DSA and very high performance. This algorithm is used to generate key pairs, which are cryptographically protected.

While using the [BLAKE2b](#) hashing algorithm to protect the network of nodes against network spam, Ed25519 is used to generate private keys and public keys for MARK Blockchain wallets. Due to vulnerability of conventional computers, developers want to create a blockchain which is second to none when it comes to security.

### Hashing algorithm used for the MARK blockchain:

Additionally, developers will be embedding the [Byzantine Fault Tolerance](#) (BFT) consensus, to check the node functionality checksum. On a node the BFT algorithm sends incoming messages to other nodes of the [Peer-to-Peer](#) (P2P) network to rule out the issue of Byzantine nodes.

Developers are also using the BLAKE2b hashing algorithm because of its high speed, security, and simplicity. BLAKE2b is a cryptographic hash function, optimized for [64-bit platforms](#) (including NEON-enabled ARMs), faster than MD5, SHA-1, SHA-2, and SHA-3, yet it is as secure as the latest standard SHA-3 and produces a digest of any size between 1 and 64 bytes.

### Transacting algorithm used for the MARK blockchain:

MARK dev-team will also be using the Delegated Proof of Stake (DPoS) consensus algorithm to maintaining irrefutable agreements across the network to validate transactions. DPoS uses a reputation system and real-time voting to achieve consensus, it is a [decentralized protocol](#) with a democratic, self-governing community allowing for free elections, and overarching legitimacy. Delegated Proof of Stake is the fastest, most efficient, most decentralized, and most flexible consensus model available today.

### MARK Distribution:

#### 360 million MARK will be generated (Total Supply)

- It is planned to place 210 million [MARK](#) on the market over time ([Market Supply](#)). This means that they will primarily flow into the individual business units (e.g., [MARKSwap Exchange](#)), connected partners, such as merchants or service providers.
- 140 million MARK remain in the vault of the company.
- 5 million MARK are available to the team (regulated by contractual Dividend agreements). If a team member of the company leaves, the remaining amount is available to the successor/s under the conditions stipulated in the contract.
- 5 million MARK are available for construction of technical infrastructure, and to build strategic partnerships or as entrance fee for admission to trading platforms.

MARK Blockchain has no direct technical connection to the ERC20 Token [MARKToken](#). The growth of MARK is to be funneled back to accelerate the successful expansion of the individual business units of [MARKNetwork](#) company.

## Future Development

The path to the so called (Smart) Industry 4.0 is the next, logical step in the global networking of digital systems. Innovations such as the [Internet of Things](#) (IoT), [artificial intelligence](#) (AI) and [driverless vehicles](#), [robotics](#) and [intelligent machines](#) are the companions of this tech revolution.

With the help of the MARK Blockchain, it is possible to put this [digital ecosystem](#), in which innovations will play a major role in the future, on a secure foundation while ensuring reduced transaction costs, and ultimate transparency.

### Transacting Between Machine-to-Machine and Internet of Things and the MARK blockchain:

The MARK Blockchain will also support not only the Internet of Things (IoT) but also [Machine to Machine](#) (M2M) system processes. Often both systems are described as the same but this is wrong, IoT is more of an extended version of M2M. For M2M, self-contained systems are used to monitor, control and optimize single processes that are not in direct contact with one another, but may involve some of the same process parts. IoT is more about an open system, e.g. by collecting data from multiple systems to make it accessible to all other systems. Depending on the approach of the task profile, a decision is made between an M2M or an IoT system.

The MARK Blockchain, will offer a decentralized, autonomous technology that can be integrated into completely different IoT concepts. MARK Blockchain will replace expensive, insecure, [centralized transaction models](#), which today are mostly managed by intermediaries and middlemen.

With standardized interfaces, MARK will offer required solutions for the industry and economy via software development unit MARKStudios.

### Examples would be:

- In the field of M2M, the direct exchange of information between machines with built-in predictive maintenance capability, it will be possible to use the MARK Blockchain to have a maintenance specialist ordered independently through the respective machine, or to order needed spare parts, there is no need to have an intermediary, which verifies the correctness of the transaction, Smart Contracts deployed over the MARK Blockchain will fully automate this process.*
- Through Machine-as-a-Service in combination with micro-payments via the MARK Blockchain, machine operators in digital marketplaces can offer free machine capacity and be paid directly for their use, the decentralized production also allow the procession of small batches, which will be handled and produced in complete autonomy which in return will increase sales, without need for a third party.*

Only with the emergence of Blockchain technology, the upcoming tasks of [Industry 4.0](#) can be mastered...

### Usage of the MARK Blockchain in relation to Electric Cars:

MARK developers also realize the need to build up the technological foundations to participate in the market growth of the [electric car industry](#), MARK blockchain, will now be able to offer the technological support the industry needs to support growth on an unprecedented scale.

**Charging Stations:** While using automated contracts (aka [Smart Contracts](#)), the MARK blockchain can individually regulate the communication between vehicle and charging station during each charging session, current contracts with local electricity providers do not need to be closed in advance. Smart Contracts are automatically processed in the background and can run with complete [autonomy](#) during each loading process.

**The following are upcoming MARKNetwork features to be added in the near future:**

**MARKPay** - The payment system and payment processor for integration into [Point-of-Sale systems](#) (PoS), or online retail systems via [API-Interface](#) (Application-Programming-Interface). MARKPay acts as the interface between the MARK Blockchain, software programs and mobile apps. Because the MARK Blockchain will be universal in programming languages it will be possible to program any application based on the MARK Blockchain.

MARKPay will also be used as an interface between carried transactions and the MARK Blockchain, separated from transactions issued through the official MARK wallets. MARKPay can also provide for additional revenue using transaction fees paid in MARK excluding the pilot program at which time all transaction fees will be set to zero...

**MARKRewards (⊕MARK)** - Introduce MARKRewards to the community in the local environment of acquired businesses with the objective of integrating payment system into dealer network of municipalities binding the inhabitant of the municipality to dealer network and or local energy suppliers. Also cooperate with local loyalty card providers towards the integration of MARKPay in order to directly reach tens of thousands of beneficial card users including current smartphone apps and integration with the MARK Blockchain wallet. Municipal taxes can even be paid with MARK and MARKRewards (⊕MARK)...

**MARKConsultancy** - Assistance for new Blockchain companies to develop their new projects, through funding (including crowdfunding) and consultation. MARKConsultancy will be the starting point for new Blockchain founders, through its large network MARKConsultancy will ensure to promote and support good ideas financially and by consultation. Shares in the new companies, will work to additionally secure MARKConsultancy and MARKNetwork and all other business units of the company.

Through the network of professionals and specialists connected to MARKNetwork safe ICO's (Initial Coin Offerings) can be offered in all interests, well as a complete consultancy from design, construction & marketing to accelerate the success of these companies.

**MARKGlobal** - MARKGlobal will be the new association of the largest Blockchain-companies in the world, it is a world council to be established as a representation of interests. The aim is to explain the advantages of Blockchain technology in the future to the general public and demonstrate to governments its advantages, while also integrating the core systems to help people to exercise their human rights and to achieve their personal freedom.

**MARKCouncil** - A bridge between specialists from all sectors of industry, research and science, as well as the individual state governments and residents of the respective countries. The aim is to act in an advisory capacity to governments to help them realise future aims which are helpful for humanity. Among the goals of MARKCouncil are: that lobbying should be abolished and both corruption and electoral fraud be terminated.

The independent specialists maintain the trust of the population, government's record successes and work successfully with the specialists. This ensures that positive achievements of mankind can be applied worldwide without leading to the gap between rich and poor countries. Especially in terms of quality of life and basic services.

**MARKDonations** - A humanitarian aid, animal welfare and environmental protection organization. MARKNetwork will fight injustice in the world. Every human deserves the opportunity to live in a habitable accommodation to get clean drinking water, affordable staple food, medical care and education. The animal welfare cares about the causes of many neglected domestic animals and the conservation of endangered species to restore the balance of nature.

Environmental protection takes care of maintaining limits in terms of harmful substances, which is important for living beings, in cooperation with specialists such as environmental researchers and scientists. Fight against plastic waste and their causes, cleaning the oceans of waste as a target to restore a healthy rhythm of living creatures and corals.

**MARKStudios** - The software company behind MARKNetwork. We will develop our own apps and software programs, as well as apps per customer order, which will use the MARK Blockchain via the MARKPay API interface.

#### **a) MARKAssetsWallet**

Alternative to digital wallets such as Jaxx or Exodus, home to several other wallets of crypto currencies in one application. Through cooperation with other Blockchain companies and through payment of a membership fee, further Blockchains will be included to MARKAssetsWallet accordingly their specific wallet-functions.

#### **b) MARKAdvertise**

Designed to move the excessive fees for selling in-app purchases with up to 70% going directly to marketplace owners like the big app stores, in to the hands of the developer. This results in more favourable apps and in-app purchases. For this, the MARKPay payment system via the API is connected to the Apps, the developer, the end customer can pay directly with MARK, by connecting to MARKSwap, other crypto currencies can be used. 30% of the payment will go to MARKAdvertise, 70% of the payment will go to the app developer, therefore the current system of the big app stores is reversed.

MARKAdvertise provides promotional materials prepared for the different business units of the company, this can include: stickers, flyers, marketing campaigns, collaborations with famous YouTuber's, magazines etc.

Another extension of MARKPay online marketing with cooperation with many advertising companies is planned as an alternative to AdWords. Here an ad network is created, the proceeds of advertising partner's takes place in MARKPay, or in MARKSwap with other crypto currencies, the distribution to the website operator then takes place in MARK, or through MARKSwap with other crypto currencies.

#### **c) MARKPlay**

The development of a transparent casino profit system (open game algorithms and random number generators) in online casinos, jackpots are always visible, the distributions are monitored and performed automatically. The aim is to strengthen the confidence of casino players in online casinos. Through transparent processes that are mapped by Blockchain contracts, this is assured. Any manipulation on the part of the casinos can be eliminated.

The plan is a great legal alternative to any many other online casinos, in the form of a MARKPlay Online Casino. Deposit of the players are made in MARKPay with MARK, or in MARKSwap with other crypto currencies.

## Partnerships

Strategic Partnerships and collaboration with larger companies and well-known personalities are being concluded in order to strengthen the visibility of the MARKNetwork units permanently and in a short period of time.

Legal process will be followed closely to secure all positions of our roadmap with the help of legal advisories. All business practices will be carried out in accordance with applicable law and regulations of the European Union and Germany, in particular the deposit and disbursement of FIAT currencies into digital cryptocurrencies.

By building this powerful infrastructure in Germany, where MARKNetwork is located, the network can be easily self-maintained to minimize costs. The famous “**Deutsche Gründlichkeit**” (**German thoroughness**) combined with the above will secure an optimal customer/user experience using MARK throughout the whole of Europe.

## Team

MARKNetwork has put together a development team of skilled and knowledgeable individuals who understand the architecture, framework and legalities of blockchain and cryptocurrency technologies and are considered early adopters or pioneers of not only Bitcoin but the underlying technology itself and the many possibilities of application, utility and use case scenarios.

## Investors Opportunity

MARKNetwork is currently seeking investors and offering a direct opportunity to participate in the growth of its startup. MARKToken provides the direct opportunity and means for investors and team members can participate and simultaneously advance the development of the company.

MARKToken is an Ethereum powered [ERC20](#) token and is the capitalizing power behind the MARKNetwork (token Contract on EtherScan.io: [0x4A2d74Bf33464fe750aDAC5B384a914F4664b090](#)).

Early contact with investors ensures that the solid foundations of the parent company and the individual business units will be created and developed as planned, alongside the core technical assets with an early priority towards the MARK Blockchain transaction systems and the MARKSwap Exchange.

### Profit sharing for investing in MARKToken:

The MARKNetwork Development Team has made it a point to create a fair and secure profit sharing system that is easy to understand and manage. It was decided that every investor in MARKToken will participate in 50% of the net profits of the company in relation to the amount of tokens held and as long as they are still holding initial MARKTokens and have not sold them.

360 million MARKTokens are currently available as the total supply. No more than 49% are available to purchase through investor channels and a minimum 51% will stay in the company.

**Example:** An investor owns 0.1 percent, which corresponds to 360,000, assuming that the company MARKNetwork makes a total profit of 1 billion euros a year, this would mean this investor would see a net sharing profit of 500,000 euros that year.

Using the MARKSwap exchange, it is always possible for the investor to transfer or withdraw their crypto currencies or FIAT currencies at the current exchange rate into a supported national currency. As an investor you would just need to create a user account with our exchange MARKSwap and run through the KYC (Know Your Customer) process once.

It is also possible to sell MARKToken from within the MARKSwap exchange at the current market price. It will not be possible to sell them somewhere else due to MARKToken providing a share based on the company's net profits.

The buyer also has to create a user account with MARKSwap and will need to run through the KYC process. After that it is very quick and easy to transfer MARKToken from one account to the other. It will be policy that it is not possible to sell more than 10,000 MARKToken per day. This limit is not fixed and could be changed at any time at MARKNetwork discretion and if so it will be communicated via the MARKSwap exchange, the reason for set a limit is to weed out manipulation of the markets.

## **MARKToken Distribution:**

### **360 million MARKToken are generated (Total Supply)**

- 146.4 million MARKToken available to investors over time
- 183.6 million MARKToken remain in the vault of the company, as financial reserve
- 10 million MARKToken are available to the MARKNetwork team. A bonus payment to each team member, in the amount reflected in his or her commitment to the project, will be paid out at predetermined milestones.
- 20 million MARKToken are available for construction of technical infrastructure, and to build strategic partnerships.

After the launch of the MARKSwap exchange, the token will need to be placed onto the exchange the reason for which we will explain further in the profit sharing section above.

Unsold or unused MARKToken will stay in the companies vault. MARKToken has nothing directly to do with the Blockchain and the transactions of MARK. The growth of MARKToken is directly related to the successful expansion of the individual business units of the company MARKNetwork.

## **Community**

MARKNetwork plans to have established cooperation of at least one community in the European Union, selected city should have more than 25k inhabitants and already have an established and practiced customer loyalty program within local shops, businesses and districts, with which MARKNetwork will integrate MARKPay into the technical framework. There is a strong belief that the road is now open for the decentralization of local communities and there is a push to continue to expand collaboration with communities that are open to this idea and that meet the requirements for integration of MARKNetwork services.

MARKNetwork will be a pioneer in this field of local community decentralization. This will be managed by the integration of MARKPay and MARKRewards (🌐MARK) into the existing technical structure of the loyalty program (Point of Sales and App).

It will be possible to directly collect MARK / MARKRewards by all registered dealers and service providers, as well as the registered leisure activity partners, and use them as a FIAT currency-equivalent for purchases of products and services.

It will be possible to pay the electricity, gas and water bills with it. It would also be possible to easily buy a fridge or a Blu-Ray player at a community electronics retail store or members of the community could directly settle their taxes to the administration using the loyalty program app.

This pilot project will be sponsored as self-financing through MARKNetwork, this will be the key to successfully engaging with additional communities, right now MARKNetwork is initially focused within the European Union (EU) and once processes are fully in place and tested a global program will be implemented.

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