

MTTCOIN WHITEPAPER

Rev. 02



OCTOBER 31, 2020

Authored by: MTT Coin team

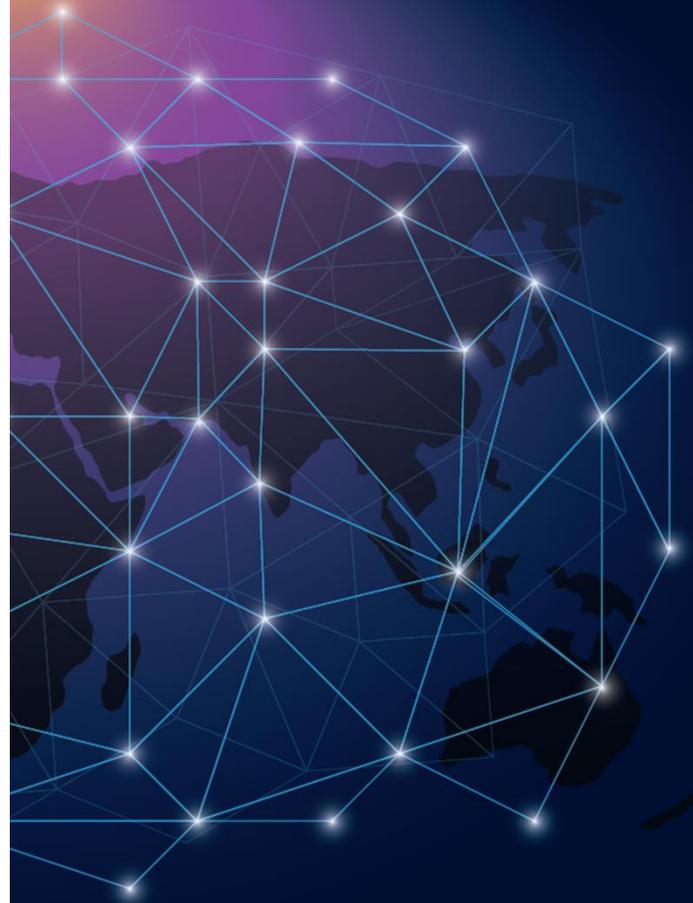


Table of Contents

I.	Chapter 1. Introduction	3
II.	Chapter 2. Roadmap	4
III.	Chapter 3. Technical Specifications	5
	Technical Components of MTT Coin Network	5
	Distributed Ledger Technology	5
	Consensus Algorithm	5
	Pair of Keys	5
	MTT Coin Miner	6
	MTT Account.....	6
	MTT Wallet	6
	Technical Infrastructure of MTT Coin Network	8
	MTT Coin Core service	8
IV.	Chapter 4. Technical Details	9
V.	Chapter 5. Vision	10
	Improvement in Electronic Markets	10
	Creating an Agile and Flexible Technology Platform in the Capital Market.....	10
	Providing a Solution for the Liquidity of the Frozen Assets in the Capital Market	10
	MTT Solution to Maintain the Value of the Micro-capital in the Capital Market.....	11
	Creating Transparency and Flexibility in the Capital Market	11
	MTT Solution for the Necessity of Customer Authentication in the Capital Market	12
	The Growing Market for Online Games	12
	Sharing Tokens between Game Apps	13
	Coin Flow in the Games Cycle	13
	Integration of Online Game Credit Systems	13
VI.	Chapter 6. Economic Module	14
	Lending Platform	14
	Payment Gateway Services.....	14
	Crypto Payment Gateway	15
	Advantages of Using the MTT Wallet Payment Gateway Compared to the Payment Gateway of Banks.....	16
	The Superiority of the MTT Wallet Payment Gateway over Other Popular Payment Gateways in the World.....	17
	The Automatic and Quick Transfer of the assets from the Client's Wallet Directly to the Business Owner's Wallet.....	17
VII.	Chapter 7. MTT Coin Mining	18
VIII.	Conclusion	21

I. Chapter 1. Introduction

Money of Tomorrow, Today!

MTT coin is a peer-to-peer cryptocurrency, released on Jan 27, 2020. MTT Coin is initiated in the form of decentralized governance. The distributed network of MTT coin is based on its own independent blockchain. It helps digital assets called MTT, be transferred around the globe without any central authorities. In addition of the services that are expected of an ordinary bank, MTT enables cost-efficient, safe, boundless, and fast payments worldwide to everyone, at any time, from anywhere. Furthermore, transactions are low charge and fees observe a price ceiling and a price floor for all transactions. Similar to Bitcoin, MTT coin network is secured by encrypted codes. But the different is that the algorithm of MTT coin network is based on Scrypt, then high speed of new block creation extremely accelerates the confirmation of the transactions.

MTT Coin provides services such as wallets, exchange, lending platform and online payment gateway.

“One of the MTT Coin goals, is to integrate the payment gateways of the online entertainment sphere”

II. Chapter 2. Roadmap

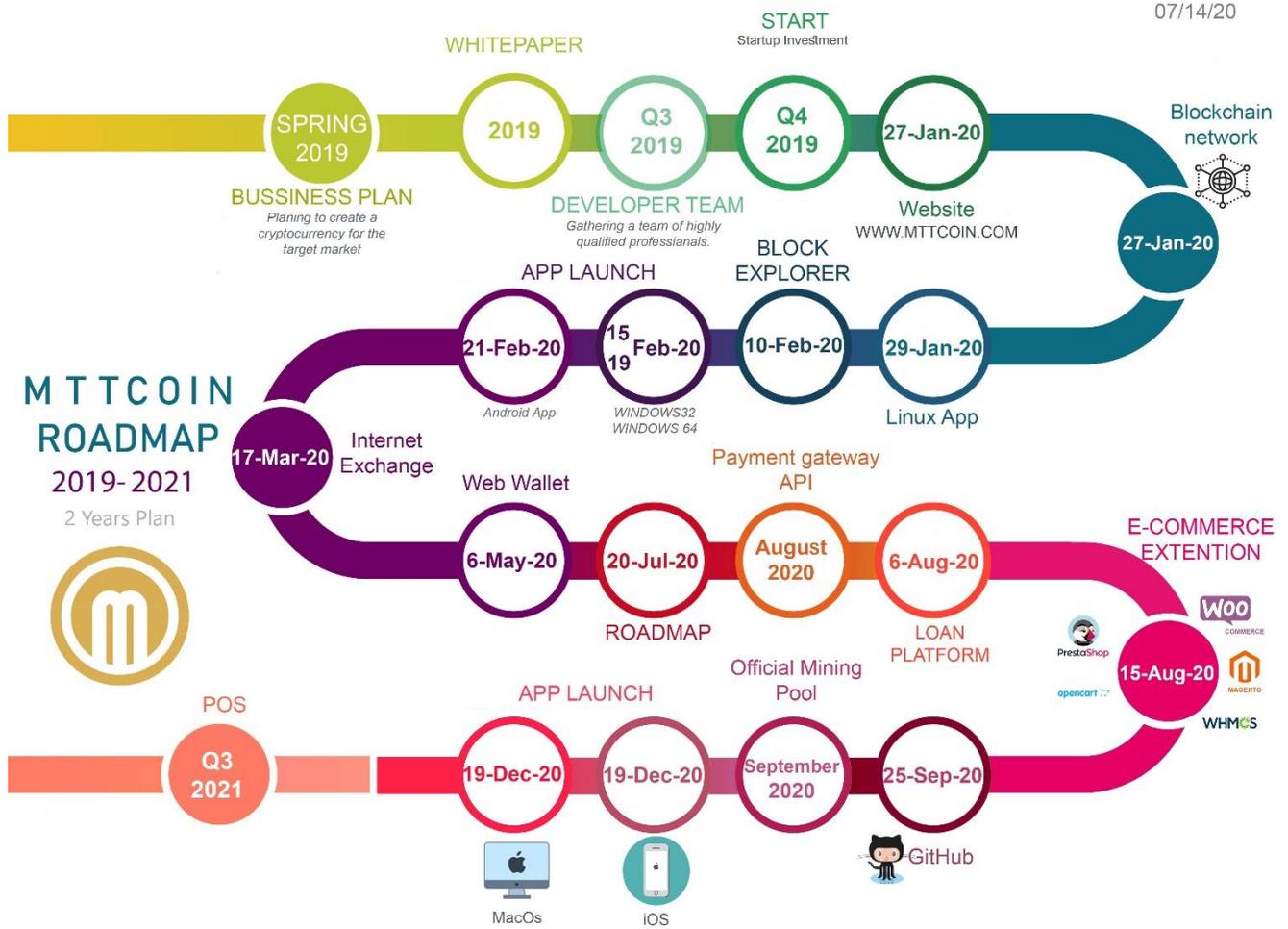


Figure 1. MTT coin roadmap

III. Chapter 3. Technical Specifications

MTT coin network consists of the links of the miners, servers, startups, sponsors, developers, and users based on the technology of distributed ledger, which enables the presentation and transaction of MTT Coin.

Technical Components of MTT Coin Network

Distributed Ledger Technology

Distributed ledger technology helps transactions of MTT Coin be recorded in multiple places at the same time. As a result, there is no central data storage or administration data functionally. This is what makes MTT coin decentralized.

Consensus Algorithm

MTT coin consensus algorithm is based on proof-of-work (PoW). A transaction verification in MTT coin network, needs minimum of 51% of the consenting votes of miners.

By using proof-of-work technology, miners compete against each other to confirm transactions on the network and get rewarded. Then, decentralized ledger gathers all the transactions into blocks. Some of MTT coin proposes of using POW, is presented below:

- **Irreversibility of Payments**
All MTT coin transactions are safe, inviolable and cannot be reversed, it can only be refunded by the person receiving MTT coin and the correction of a previous transaction is only possible by submitting a new transaction.
- **Transparency**
The records of all transactions are available to the public. All MTT coin miners confirm the transactions and register their vote in the ledger.
- **Fees**
The transaction fees in the MTT coin network vary depending on the number of the transactions and network crowd.
- **Decentralized Governance**
Considering the decentralized nature of the ledger and necessity of the active participation of all MTT miners in the confirmation of transactions, the governance of the MTT coin network is spontaneously decentralized and distributed.

Pair of Keys

Pair of Keys refers to a unique pair of a public key and a private key, which is created when a user initiates his/her first transaction in a MTT Wallet. Each of the keys consists of a long string of alphanumeric characters that help to keep a user's holdings secure in the MTT coin ecosystem.

MTT Coin Miner

The MTT Coin miner is defined as any natural or legal person who is active in the MTT coin complex through verifying transactions into the blockchain using a computer.

MTT Account

An MTT account is an extended public key, the address or number, which is unique for each user in MTT coin network. The minimum of required amount to verifying an account in MTT bockchain is 1 MTTmil which is considered as the smallest amount of MTT coin.

MTT Wallet

MTT Wallet is a digital secured system that allows MTT users to hold and manage a private key, a digital address which allows users to trade MTT coin online. The transaction process is safe and easy. It helps people to use the coins as cash to purchase any products or services. MTT wallet is now released for Android ([available on Google Play](#)), Windows and Linux ([available on MTT coin official website "https://mttcoin.com"](#)), web (<http://mttwallet.com>), MacOS and iOS ([Release Date: Dec19, 2020](#)), which facilitates the access and daily use of MTT coin. Each user can download the compatible wallet according to the operating system in use. There is no limitation in use or any restrictions in transaction limit as well. As a result, it will be possible to make a transaction and withdraw the entire assets. (Even one MTTmil only, which is the smallest unit of MTT coin.)

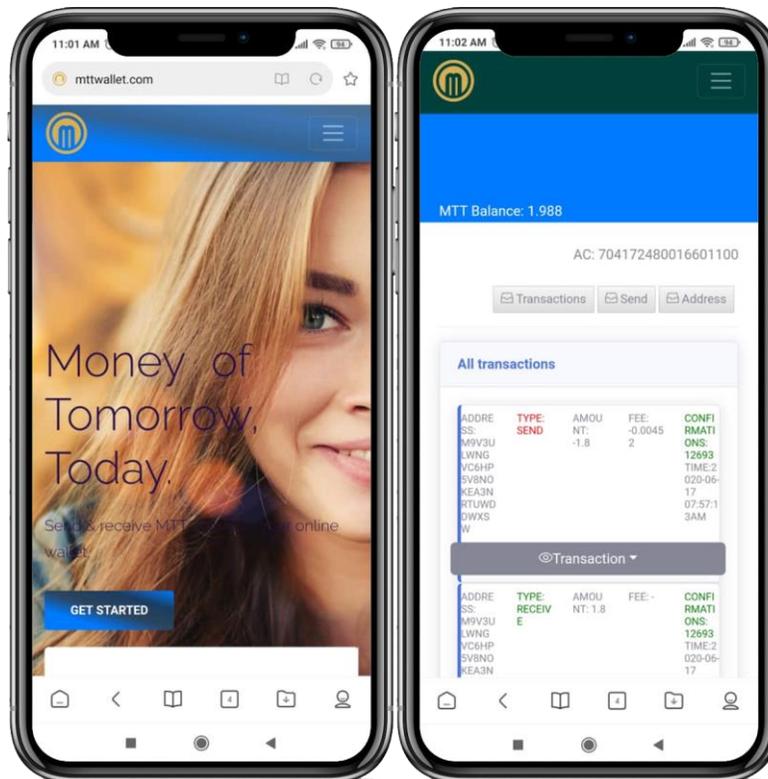


Figure 2. MTT Wallet for Android

The wallets are secured by a 12-word phrase, a six-digit pin, and a unique public key. However, the 12-word phrase is the unique password of each account, and stored in an encrypted format. On the other hand, the 12-word phrase is used to retrieve the wallet. (Correct spelling and observing the basic order is required.) In other words, it would suffice to retrieve the assets in case of losing the 6-digit password (which is unique for each device).

The account number or wallet address is considered to be the public key. Public key is a unique address which is supposed to be single-use to obtaining more privacy and security. Each public MTT coin address your wallet generates, stems from your wallet's extended Public Key. Once a public address receives an incoming payment, a new address will automatically be generated and display when you click on Request. The previous public address never expires; but it is generally recommended to use a new address for each transaction.

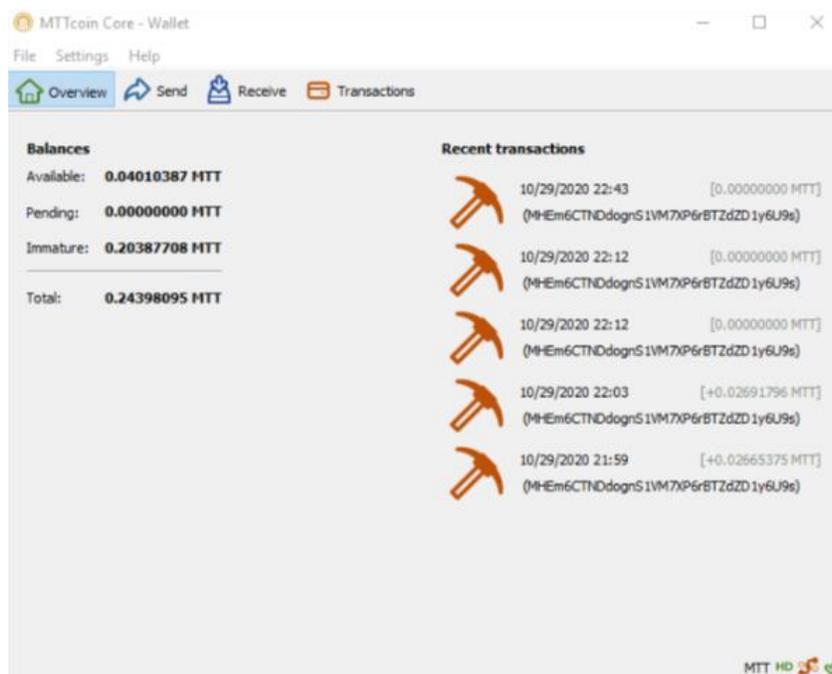


Figure 3. MTT Wallet for Windows

Technical Infrastructure of MTT Coin Network

MTT Coin Core service

MTT Core service is the main part of the coin network, which is programmed to decide which block contains valid transactions. The users of MTT coin core only accept transactions for that blockchain, making it “THE MTT BCLOCKCHAIN”. This unit helps to keep MTT coin decentralized. The miners individually run their own MTT coin core full nodes. Each of those full nodes separately follows the exact same rules to decide which block is valid. There is no voting or other corruptible process involved.

The main components of the MTT coin core are as follows:

- **MTT coin blockchain**

It is a public ledger that records MTT coin transactions. It is implemented as a chain of blocks, each block containing a hash of the previous block up to the genesis block of the chain. A network of communicating nodes running MTT software maintains the MTT blockchain.

- **MTT coin block explorer**

It is an online block chain browser which displays the contents of individual MTT coin blocks and transactions and the transaction histories and balances of addresses.

IV. Chapter 4. Technical Details

Technical details of MTT coin is presented in below:

MTT Coin Details	
Full Name	Money of Tomorrow, Today
Ticker	MTT Coin
Introduction Date	January 27, 2020
Launch Date	January 30, 2020
Type	Cryptocurrency
Fork	Litecoin
Total Supply	2,073,240
Consensus Algorithm	Proof of Work (PoW)
Hashing Algorithm	SCRYPT
Block Time	Less than 1 Minute
Through Put	500 tps
License	MIT License
Original Authors	MRM Group
Smallest Unit	1 MTTmil = 0.000001 MTTcoin
Transaction Fees	Variable (depending on network conditions at the time and the data size of transaction)
Operating System	Linux, Windows, macOS, Android, iOS, Web
Written Languages	C++, Python , etc
Difficulty Adjustment Algorithm	Dark Gravity Wave
Mining	CPU - GPU
Miner Fees	Collect Transaction Fees
Scalability	Yes
Explorer	http://mttexplorer.com
Repository	https://github.com/mttcoin/MTTcoin-core

Table 1. (Technical Details)

V. Chapter 5. Vision

Improvement in Electronic Markets

Due to several limitations, capital markets have failed to provide the E-market requirements. Some of the main challenges in this regard include time-limited services, inability to barter the assets, delayed settlement, lack of transparency in transactions, and occasional reversibility of transactions, interferences of governments, and limitation in determining the agreed prices.

E-markets are the inherent elements of digital economy, including a network of linked buyers and sellers, where they trade products/services. The E-market is formed within the context of electronic trades, in which all transactions take place electronically and often operate 24/7; in other words, the E-market never closes. These markets have no geographical dimensions and provide a web-based space for purchasers and suppliers to interact. Furthermore, E-markets are free, and purchasers and suppliers are able to negotiate, offer prices, or barter assets directly in this space.

Creating an Agile and Flexible Technology Platform in the Capital Market

Advantages such as transparency, trustworthiness, and information stability in blockchain-based networks enable economic units to present a collection of assets in the form of coins and provide more diverse products for clients. It is also essential to provide a flexible and agile infrastructure in order to enable the use of coins without restriction.

Providing a Solution for the Liquidity of the Frozen Assets in the Capital Market

Frozen (unproductive) assets refer to the assets that cannot yield benefit for the owner (e.g., liquidity). In some countries, the value of these assets is extremely high, which limits the number of the potential purchasers in the market, thereby considerably lowering their chance of selling. Under such circumstances, strategies such as the stimulation of the micro-capital of the public or connection to the global market could be effective solutions considering the extensive volume of the economy of countries in relation to the frozen assets of financial systems. However, the solution cannot be applied without efficient and transparent infrastructures and mechanisms

based on the distributed ledger. In the MTT coin network complex, economic entities are able to turn these assets into coins with the aim of increasing the liquidity of the frozen assets. Some of the most important facilities of the MTT coin network for implementing this solution are as follows:

- Existence of an efficient environment to facilitate trading and micro-investments;
- Proper speed and efficiency for high volumes of transactions;
- Support of The Lightning Network to enable fast transactions among participating nodes. It is a solution to the scalability problem. It features a peer-to-peer system for making micropayments of cryptocurrency through a network of bidirectional payment channels without delegating custody of funds.

MTT Solution to Maintain the Value of the Micro-capital in the Capital Market

The lack of a transparent and controllable structure to gather and lead the micro-capital to the productive areas (e.g., housing and manufacturing industries) cause these assets to be scattered and aimlessly diverted to other unproductive sectors. Meanwhile, unusual fluctuations in the market and, most importantly, the loss of capital could be prevented by clear, efficient infrastructures and mechanisms based on the distributed ledger.

Creating Transparency and Flexibility in the Capital Market

Services based on centralized structures, are constantly exposed to three main challenges, including the lack of transparency, inflexibility, and inaccessibility. Efforts to maintain the security and integrity of information lead to the partial loss of transparency. On the other hand, maintaining data privacy reduces the possibility of external supervision, which in turn leads to system corruption. Moreover, data accumulation in centralized servers, which is carried out to enhance service management and compliance with regulations, leads to the failure and decreased accessibility of services. All transactions are available through the MTT coin block explorer, which has solved the mentioned issues by MTT coin.

MTT Solution for the Necessity of Customer Authentication in the Capital Market

It is impossible to provide several financial services before the identification and authentication of the clients. Therefore, user identity should be confirmed and inserted in centralized data record system by financial institutions and banks prior to the provision of banking services. Factors such as failure to provide identification service by a centralized entity (e.g., civil registration organizations), lack of integrity of international laws and regulations, existence of a wide variety of identity verifying tools, and legal challenges in sharing private information of clients, have caused banks to directly complete the authentication process of the clients independently by inviting them to the branch and receiving a hard copy of ID. However, this process is costly and time-consuming, while it also increases the risk of the disclosure of private information and use it without permission. Given the importance of privacy in online financial markets, the MTT coin has made it possible to protect the privacy of individuals, using encryption method. As such, the users could benefit from privacy and anonymity, which are the pillars of cryptocurrency, as operated in the MTT coin blockchain.

The Growing Market for Online Games

The emergence of the Internet has opened a new chapter in the world of entertainment. With the help of the Internet, the entertainment industry has been able to provide the boundless and global experience of online games. Today, this market is worth billions of dollars and is annually growing especially in developing countries such as India, Brazil, and China. Today, online entertainment has become an inherent element of people's lifestyle across the world, and games are among the most profitable venues of this industry. Nevertheless, the dispersion of payment systems and isolation of the world of online entertainment have led to the partial exploitation of the industry's huge potential. The online games market has the greatest revenue-generating opportunities via the Internet, with online mobile games having the largest share in the market.

The integration of the entertainment industry and the Internet in the global arena is moving toward a new round of prosperity. Therefore, special attention should be paid to the Asian countries with vast markets as they are the key to the development of the entertainment industry during the flourishing of the entertainment industry in Europe. Nonetheless, it is essential to improve the traditional systems through the Internet in order to modernize the entertainment industry and access the market and its users.

Sharing Tokens between Game Apps

MTT coin has established a novel system for digital credit transfer in online entertainment Apps and websites; Its useful capabilities could be exploited by the users, to significantly decrease the costs of information input requested by various applications. On the other hand, developers can prevent the unwanted costs of re-authentication and the disclosure/theft of identity information by intermediaries. Therefore, it is possible for a user to rapidly connect to the network without using special nodes or coding, owing to the compatible modules defined for different Apps and sites.

Coin Flow in the Games Cycle

The non-uniformity and non-integration of tokens in entertainment systems impose additional costs on the users. On the other hand, it is difficult for the users to constantly change the payment system of any application. The MTT Coin is able to connect to various payment systems in game applications and establish the integrated flow of information and payment. As a result, the required trust between users and game developers will turn into trust between humans and technology.

Integration of Online Game Credit Systems

MTT coin has overcome the obstacles of authentication and validation of individuals with low costs through the consensus protocol. In addition, it uses peer-to-peer transactions by avoiding centralized payment structures. As a reliable connection between the users and developers, MTT coin constantly measures the accuracy and consistency of credits. Therefore, we could hope for a significant increase in the productivity of the global entertainment market through the mentioned solutions. Furthermore, decentralization and reduced transaction fees could increase the demand and economic prosperity in the online gaming industry.

VI. Chapter 6. Economic Module

Lending Platform

The users of the crypto world basically use two main ways to apply their digital assets, including the “hold” and “trade” methods. In general, it is believed that holding a cryptocurrency to restrict the market supply is beneficial, which it does not have a significant interest for long-term investments. The MTT coin has launched a lending platform (<https://www.mttloans.com>), which afforded an opportunity to lenders to revive their stagnant assets. On the other hand, MTT loan borrowers don’t need a guarantor or authentication to receive it. Also they could earn fiat or receive and exploit their MTT coins for trading, arbitrage or market-making without the need for selling the assets or paying taxes. This will be a remarkable improvement for HODLers and major investors. In addition to these applicable benefits, another superiority of MTTLoans, is providing the deposit accounts with higher annual interest rates compared to the bank saving accounts in many countries.

Payment Gateway Services

What Is MTT Payment Platform?

How MTTCoin Transactions work

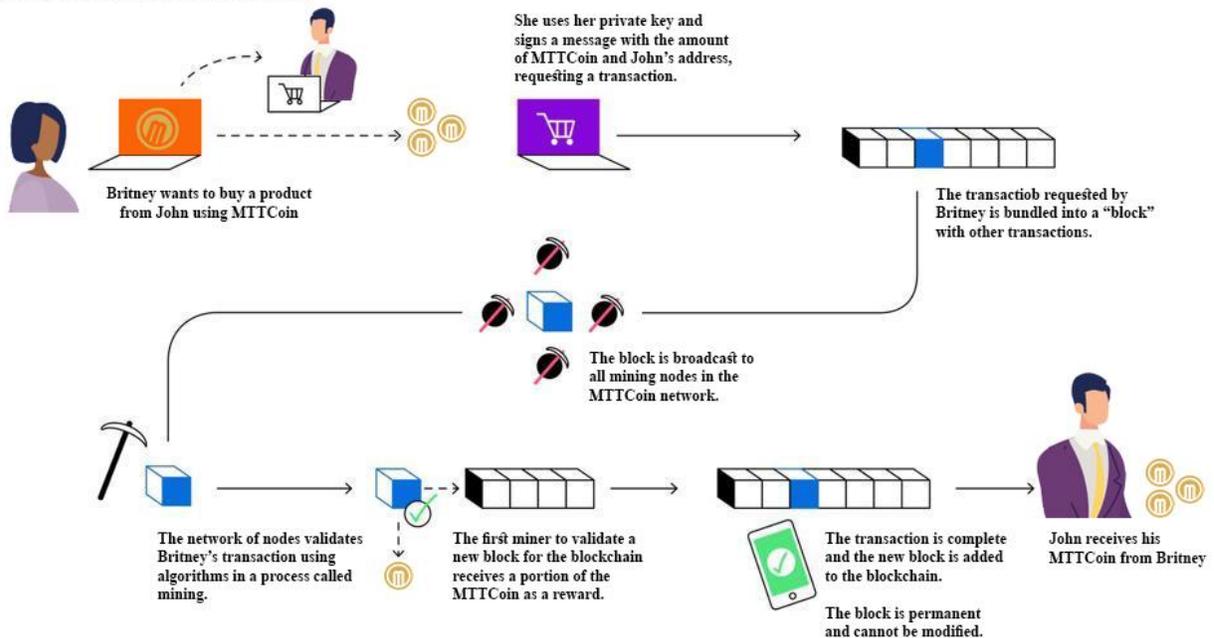


Figure 5. MTT Payment Gateway

Crypto Payment Gateway

Considering the daily improvement in online payments, the legacy payment system is only a few steps away from a completely different future. Online gateways are considered to be optimal payment methods owing to prominent features such as security and availability. One of the most considerable features of online payment gateways is the provision of several approaches to online payments, one of which is payment by cryptocurrencies and establishing a digital currency payment gateway. Many companies and businesses seek to establish the necessary infrastructures for payment by cryptocurrencies; such examples are Bitcoin, Ethereum, and Litecoin. Today, cryptocurrency payment gateways have gained significant popularity among various businesses. Every day, more people are attracted to cryptocurrencies worldwide, and the number of the active traders in this field and the individuals using cryptocurrencies in their payments has also been on the rise. Receiving the MTT payment gateway requires no time-consuming bureaucracy or authentications. All you have to do is visit <https://mttwallet.com/developers> in order to receive the gateway API and simply apply it on your website. MTT wallets eliminate the obstacles and facilitate payment process.

The gateway codes can be received by visiting

<https://mttwallet.com/developers>, and the gateway can be simply installed on the website by the following API:

```
For developers

// Publish on your site
<form method="POST" action="https://mttwallet.com/sci/form" target="_blank">
  <input type="hidden" name="merchant" value="7">
  <input type="hidden" name="item_name" value="Testing payment">
  <input type="hidden" name="amount" value="112">
  <input type="hidden" name="currency" value="debit_base">
  <input type="hidden" name="custom" value="comment">
  <button type="submit">Pay now!</button>
</form/>
```

Figure 6. Payment Gateway API

Advantages of Using the MTT Wallet Payment Gateway Compared to the Payment Gateway of Banks

You can ask your clients to make payments by MTT coins using the MTT wallet payment gateway, which has considerable benefits for your business. For instance, the payments that are made through credit cards are often costly, and a high fee is also deducted for each transaction in traditional payment processes; the MTT wallet reduces these costs and the payment fees to less than 0.01%. On the other hand, transactions with the MTT coin are non-refundable, and the recharge or refund (common with credit cards) never happens in this payment method. Another advantage of this technique is the facilitation of international transactions, which is noticed by traders due to the decreased fees with the MTT wallet. Quick access to assets is mainly a challenge for traders, which is mostly not possible through liquidity flow and places obstacles in business. In purchasing through bank gateways, the transactions are restricted due to the certain limits, whereas cryptocurrency gateways have no limitations in this regard. Moreover, MTT wallet gateway is more accessible and easier to use for online businesses compared to bank gateways. A website could be equipped with the MTT coin payment portal simply by placing the gateway API on the online store or service website without visiting a bank or authentication.

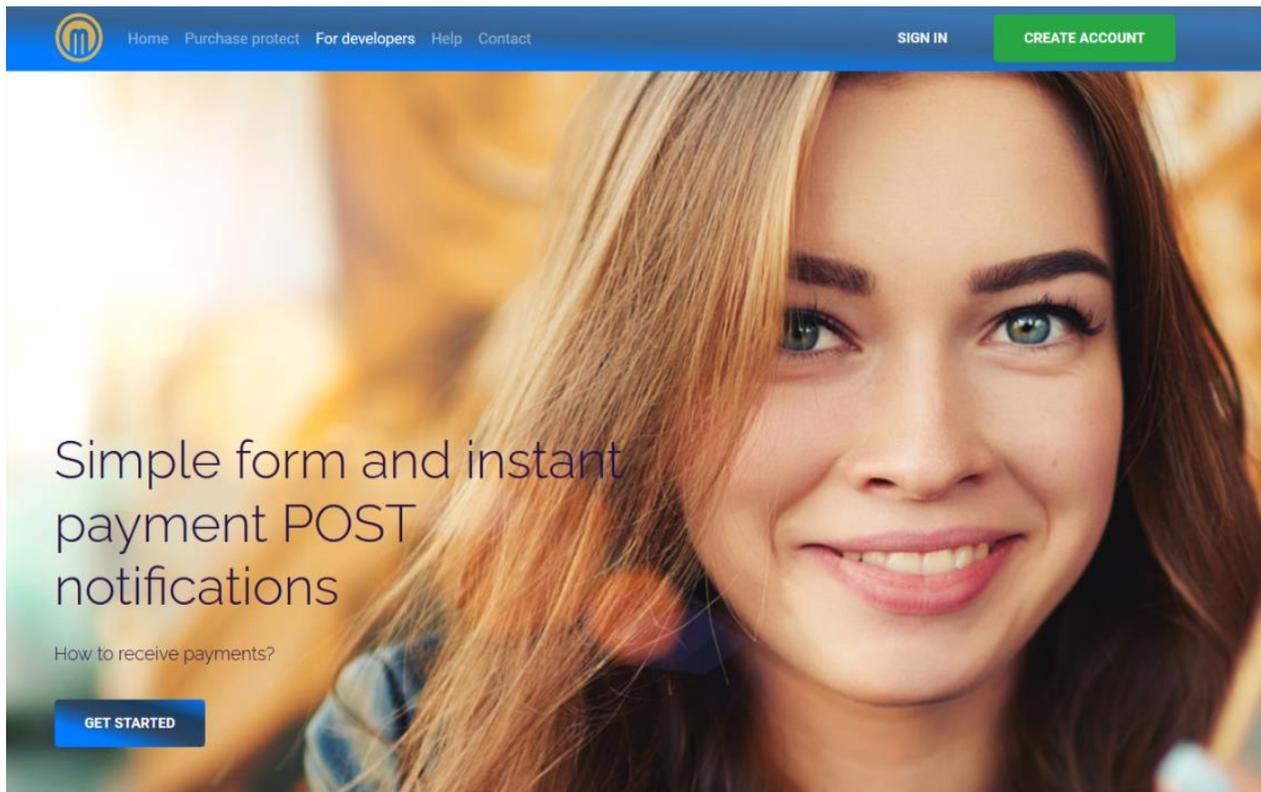


Figure 7. MTT Wallet for Web (Payment Gateway Provider)

The Superiority of the MTT Wallet Payment Gateway over Other Popular Payment Gateways in the World

Free Registration

Contrary to the other payment gateways that require a registration fee, MTT wallet payment gateways could be exploited by the users through a website or internet business free of charge.

Fixed and Low Fees

In contrast to the other gateways used in the world, a fixed and small fee (~0.01%) is required for each transaction by the MTT wallet gateway. Meanwhile, some gateways demand 1-5% of the total transaction amount, which imposes huge costs on the clients in substantial transactions.

Fast and Secure

MTT wallet gateway has a fast function and is exceedingly secured due to using the blockchain technology.

The Automatic and Quick Transfer of the assets from the Client's Wallet Directly to the Business Owner's Wallet

Today, all the digital currency gateways in the world store the cryptocurrencies entered on the website and gateway. Afterwards, the website or business manager should refer to their dashboard from within the payment gateway in order to receive their coins. In other words, the currencies of your clients are not directly deposited into your wallet. However, an option called the “automatic deposit” has been made available in the MTT wallet gateway, and its function leads to the direct and instant deposit of the coins used by your clients on the website into your wallet. As a result, no coin will be locked in the MTT wallet gateway, and there is no need to refer to the dashboard of the gateway to receive your MTT coins.

VII. Chapter 7. MTT Coin Mining

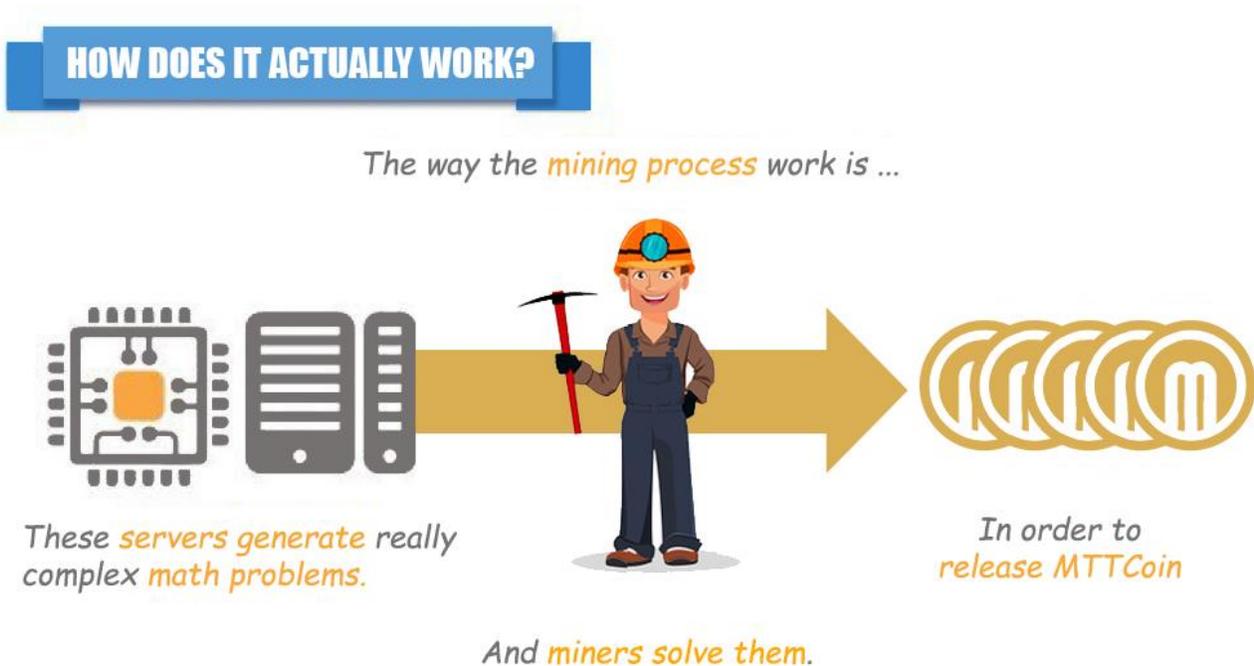


Figure 8. MTT Coin Mining

Making a transaction is associated with the creation of a new block. Since the transactions are encrypted, miner's task is to solve a computational puzzle and receives MTT coin as block reward, in return for securing the MTT blockchain network. MTT coin mining is the process in which transactions between users are verified, and added to the blockchain public ledger. The process of confirming MTT coin transactions within the network, is carried out by a CPU and graphics card(GPU). However, MTT coin is a pre-mined cryptocurrency. In the p2p network of MTT coin, transactions are carried out without intermediaries. In other words, there is no need to centralized entities (e.g., banks or financial institutions) to process the transactions. In fact, the network is secured by the MTT miners, and the transactions in the network mainly include the transfer of MTT coins between various individuals.

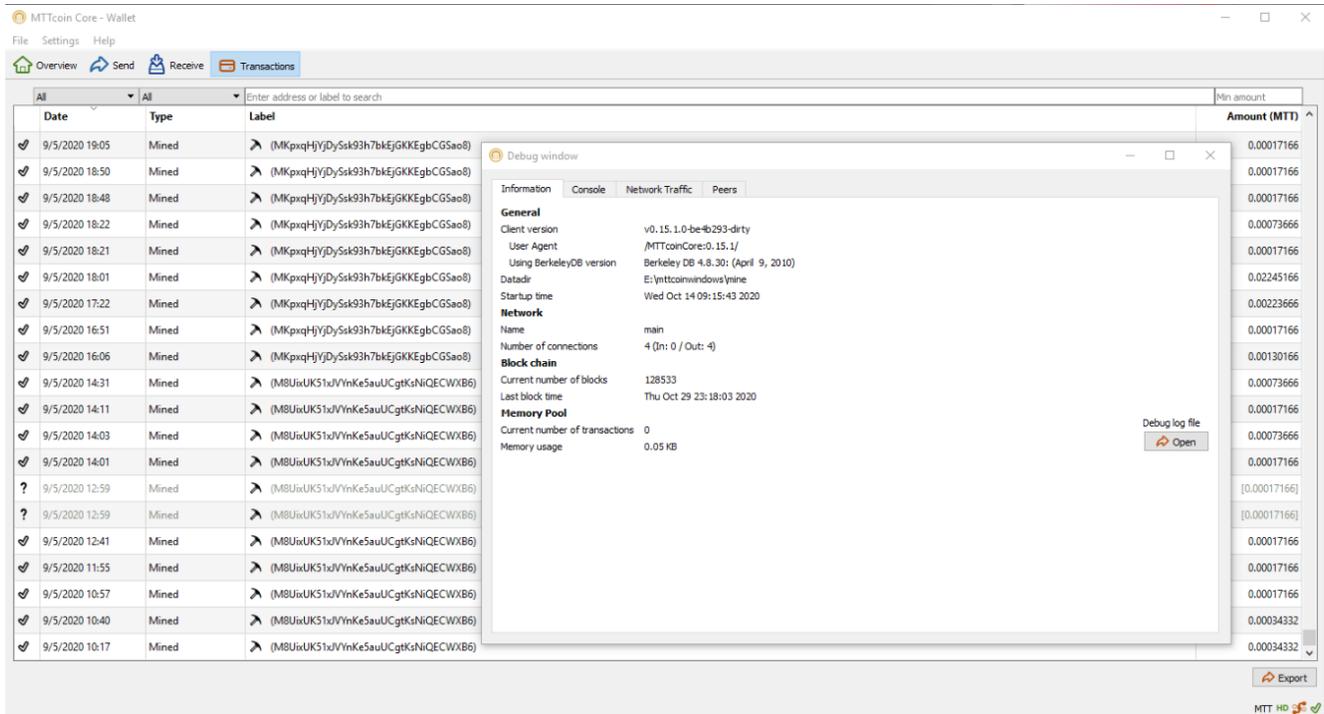


Figure 9. MTT Coin Miner (MTT Wallet for Windows)

After validation by the nodes, the transactions are registered in MTT blockchain. Since no centralized entity is capable of processing all the transactions alone with high reliability, the miners provide their own computers and computation devices to the network to contribute to this process. When the processing of a data block is completed and the block is extracted, the miner who succeeds in the processing of the block receives the fees of the transactions, known as block reward. The MTT network is based on PoW and functions by creating sufficient economic incentives for the miners to enable receiving their share of the approved coin transactions in the desired process. The main goal is to confirm the transactions that should be registered in the distributed ledger (i.e., blockchain).

The rewards of the miners are provided in the form of MTT coins depending on the contribution to the network and the consumed energy by their computation device.

One of the key benefits of MTT coin mining is that no specific and powerful hardware is required, and conventional systems and laptops could also be used for mining. In addition, any person could mine MTT coins by connecting to its dedicated mining pool.

Here's how it works.

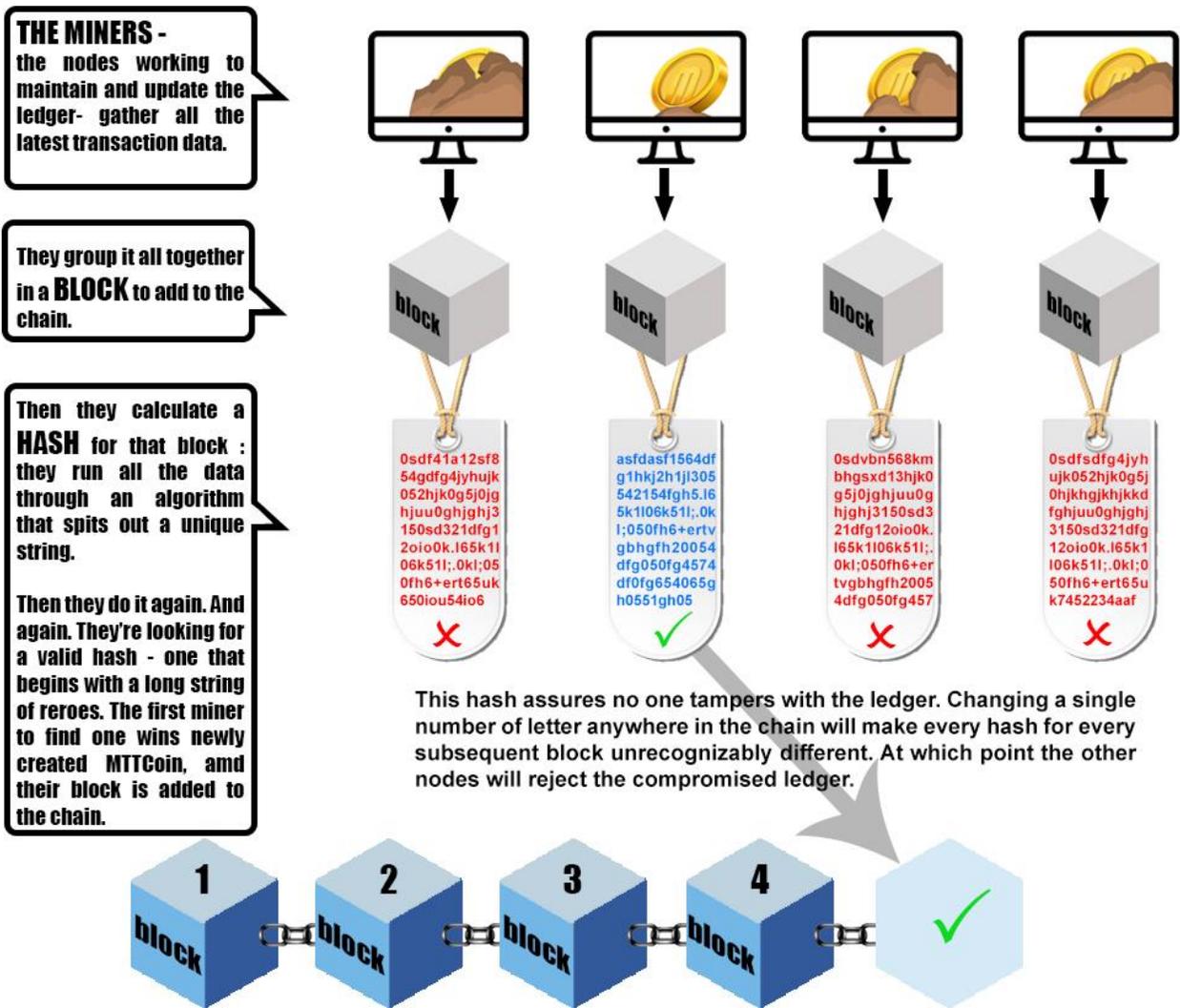


Figure 10. Mining Procedure of MTT Coin

VIII. Conclusion

MTT Coin is a solution to blockchain scalability that has employed innovative methods for tackling challenges faced by legacy blockchain networks. Providing a lending platform, without involving any intermediary companies, any guarantor or authentication necessity, has offered a solution to centralized and nondemocratic economy. In addition, MTT coin users could gain profit by active participation in mining process. As a result, users benefit from the advantages of speed, profitability and anonymity, in MTT coin network, which is the main purpose of cryptography.