

Titan Coin Whitepaper

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INTRODUCTION

Blockchain is a distributed database, which uses digital book technology that stores transaction records and shares them on a distributed computer network. Using encryption, each network participant can log in and manage the ledger securely. No central authority is needed in this

system. The blockchain maintains a list of records (blocks) that continues to grow, each containing a timestamp and a link to the previous one.

Titan Coin introduces a completely new blockchain technology that uses Hybrid POW & dynamic POS SHA 256+ Groestl (Dual Algorithm) for its backbone of the transactions & a POS (proof of stake) system that pays 2.5 percent per year.

Titan Coin is an experimental currency that allows immediate payment to anyone, anywhere in the world, using the zero-coin library. Titan Coin uses a hybrid POW / POS to get started, then goes on to complete the proof of stake (pos sha256d algorithm) with a low energy consumption and rewards long-term users and blocks pos hash holders, your weight of the mines does not block the percentages.

TITAN COIN is a new generation of cryptocurrency that uses the latest blockchain technology that focuses on secure and fast transactions. TTN is using the SHA256D algorithm of the main bitcoin source and are upgrading to safer and faster transactions.

We are happy to present interested parties with the opportunity to participate in Titan's potential growth. Once users have increased, the demand for Titan Coin will be very high.

Titan is a self-sustainable blockchain platform for creating and running new economic applications. Our community uses the Titan platform as a payment service, proof of data integrity and support structure for projects ranging from cloud computing to applications. As more and more users bring their talents and passion to the platform, Titan's potential to promote innovation is growing exponentially.

ALGORITHM

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WHAT IS SHA-256?

SHA-256 is a member of the SHA-2 cryptographic hash functions designed by the NSA. SHA stands for Secure Hash Algorithm. Cryptographic hash functions are mathematical operations performed on numerical data; By comparing the calculated hash (the result of the algorithm execution) with a known and expected hash value, a person can determine the integrity of the data. A one-way hash can be generated from any data, but the data cannot be generated by the hash.

SHA-256 (secure hash algorithm, FIPS 182-2) is a cryptographic hash function with digest length of 256 bits. It is a keyless hash function; that is, an MDC (Manipulation Detection Code).

A message is processed by blocks of $512 = 16 \times 32$ bits, each block requiring 64 rounds.

Functions and constants

The algorithm uses the functions:

$$\begin{aligned}
Ch(X, Y, Z) &= (X \wedge Y) \oplus (\overline{X} \wedge Z), \\
Maj(X, Y, Z) &= (X \wedge Y) \oplus (X \wedge Z) \oplus (Y \wedge Z), \\
\Sigma_0(X) &= RotR(X, 2) \oplus RotR(X, 13) \oplus RotR(X, 22), \\
\Sigma_1(X) &= RotR(X, 6) \oplus RotR(X, 11) \oplus RotR(X, 25), \\
\sigma_0(X) &= RotR(X, 7) \oplus RotR(X, 18) \oplus ShR(X, 3), \\
\sigma_1(X) &= RotR(X, 17) \oplus RotR(X, 19) \oplus ShR(X, 10),
\end{aligned}$$

and the 64 binary words K_i given by the 32 first bits of the fractional parts of the cube roots of the first 64 prime numbers:

0x428a2f98	0x71374491	0xb5c0fbcf	0xe9b5dba5	0x3956c25b	0x59f111f1
0x923f82a4	0xab1c5ed5	0xd807aa98	0x12835b01	0x243185be	0x550c7dc3
0x72be5d74	0x80deb1fe	0x9bdc06a7	0xc19bf174	0xe49b69c1	0xefbe4786
0x0fc19dc6	0x240ca1cc	0x2de92c6f	0x4a7484aa	0x5cb0a9dc	0x76f988da
0x983e5152	0xa831c66d	0xb00327c8	0xbf597fc7	0xc6e00bf3	0xd5a79147
0x06ca6351	0x14292967	0x27b70a85	0x2e1b2138	0x4d2c6dfc	0x53380d13
0x650a7354	0x766a0abb	0x81c2c92e	0x92722c85	0xa2bfe8a1	0xa81a664b
0xc24b8b70	0xc76c51a3	0xd192e819	0xd6990624	0xf40e3585	0x106aa070
0x19a4c116	0x1e376c08	0x2748774c	0x34b0bcb5	0x391c0cb3	0x4ed8aa4a
0x5b9cca4f	0x682e6ff3	0x748f82ee	0x78a5636f	0x84c87814	0x8cc70208
0x90befffa	0xa4506ceb	0xbef9a3f7	0xc67178f2		

BASIC OPERATIONS

- Boolean operations AND, XOR and OR, denoted by \wedge , \oplus and $_$, respectively.
- Bitwise complement, denoted by $\overline{}$.
- Integer addition modulo 232, denoted by $A + B$.

Each of them operates on 32-bit words. For the last operation, binary words are interpreted as integers written in base 2.

- $\text{RotR}(A, n)$ denotes the circular right shift of n bits of the binary word A .
- $\text{ShR}(A, n)$ denotes the right shift of n bits of the binary word A .
- AkB denotes the concatenation of the binary words A and B .

SECURITY

Titan Coin, which inherits all the security benefits of bitcoin, uses peer-to-peer technology to operate without centralized authority. Verification of transactions and the issuance of foreign currency are collectively carried out by the network, by consent. All records are completely decentralized and non-responsive and cannot be edited.

revoked or suspended by any authority. Although blockchains are design-safe, it's possible that 51 percent of attacks occur when an entity controls more than half of the network's hash power. But with PoW and PoS in tandem, the Titan Coin blockchain has a high degree of security.

TYPES OF TITAN COIN WALLETS

- Traditional Web Wallet
- Advance Web Wallet
- Android Wallet
- iOS/MAC Wallet
- Windows Wallet
- Linux Wallet

CRYPTOCURRENCY EXCHANGES

As of now, TTN is traded with Bitcoin and other major cryptocurrencies at **ENMANET** and **ESCODEX** exchange. We are also ensuring that our coin will have more liquidity and will be listed on all major cryptocurrency exchanges such as Kraken, Bitfinex, Poloniex, and Bittrex among others. Most crucially, the coin will be easily convertible into multiple currencies which will make it adoptability easier.

HIGHLIGHTS OF TITAN COIN PROJECT

T-11 TITAN FANTASY SPORTS GAMING APP

T-11 is a unique fantasy sports gaming app developed by Titan Projects that allows its users to play fantasy sports games like Cricket, Football, Hockey, Boxing, Tennis, etc.

If your knowledge and skill about sport is good, then T-11 app is for you. You can create your own unique team made up of real players for all live sports games like Football, Cricket, Tennis, etc. You can earn points based on the performance of your chosen players in live matches.

T-21 TITAN DATING ANDROID APP

T-21 is an android app to meet new people. We are the safest and secured companion: wherever you go on this planet, we will be there. If you are here to meet new people, expand your social network, meet local people when you travel or if you live right now, you are in the right place.

Slide, swipe. Meeting. Chatting. Dating. Titan App is simple and fun: swipe left or right to click Like, swipe up to skip. If someone likes you back, it's a match! No stress. No rejection. Just browse, match and chat online with your matches, then get away from the phone, meet in the real world and activate something new.

- **ADDITIONAL FEATURES OF T-21 APP**

We offer a beta version with a privacy feature for women and a voice chat feature that makes it an interesting app for dating. We will be launching new updates soon. Titan App will give you a unique dating experience.

T-31 TITAN FAMILY SECURITY APP

T-31 is a unique software app that converts your smartphones, tablets and computers into an advanced security tracking system with amazing features.

ADDITIONAL FEATURES

- Real-Time Tracking
- Video Monitoring
- Instant Notification/Alert
- Remote Recording
- Two-Way Audio
- Find Lost Phone

T-41 TITAN SALES TEAM REPORTING APP

Our T-41 employee tracking app helps you track your field, sales employee's GPS location and day activities in real time.

T-41 app helps you track attendance of your sales employee, their location using GPS. You can also track their daily movement, visit details, meeting time and sales order they have got, all in real time.

ADDITIONAL FEATURES OF T-41 APP

- You know where our sales employees are
- You can assign work to the sales employees online
- It is easy to calculate working hours
- You can track your geographical reach
- Online ordering helps quick processing

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