Taugas

Peer-to-Peer technology platform

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1. Goal：

The Taugas project should establish a technology platform that is Peer-to-Peer, no center,   based on digital currency

2. Cause：

Ethereum storage requirements have gone beyond the normal computer hard disk configuration, and the network requirements for synchronizing block chain data have gone beyond the general broadband capabilities. Therefore, the trend of Ethereum centralization is inevitable. Moreover, Ethereum is adding additional functions and overstaffing the platform.

Bitcoin has always maintained the original belief of the block chain. However, since the block chain system is difficult to upgrade once it is run, it is not feasible to make further improvements.

There are also some block chain projects that use other consensus mechanisms, which are more central in nature.

So we need a new system with advanced functions and keeping the chain belief of primitive blocks.

3. Characteristic：

3.1 The pursuit of a completely non central block chain is called the basic public chain. The basic chain should ensure consensus and resource centralization. The public chain only deals with digital currency and can not deploy contracts.

3.2 A basic digital currency. Use in basic chain and alliance chain

3.3 The alliance chain can be established on the basic chain. The data stored on the Federation node nodes are not stored on the basic public chain nodes. Because of the centralization of alliance chain, TIPS can be increased to more than 1000.

4. Scheme：

4.1 For 3.1

4.1.1 Consensus

The existing project consensus mechanism is divided into Peer-to-Peer (POW, POS), community (DPOS), alliance (POA, BFT). Only Peer-to-Peer consensus is truly a centerless consensus. So we adopt the POW+POS consensus mechanism.

The POS consensus can be modified by referring to Algorand algorithm to reduce the centralization trend and vulnerability of POS itself.

4.1.2 Resources (CPU, memory, hard disk, network)

The de centralization of resources means that the general computer can act as the whole

node of the block chain. Bitcoin is correct because it does not expand the block space for tips. Ethereum's hard disk space is too large for ordinary computers to bear. Therefore, Ethereum has become inevitable centralization.

The size and time of the system block should be strictly limited, so that the system's demand for resources is consistent with the resource growth curve of the ordinary computer.

4.2 For the characteristics of 2, based on Ethereum, absorb some functions of bitcoin to modify.

4.3 For characteristics 3,
4.3.1 Consensus
The POA consensus mechanism is adopted.

4.3.2 Resources
The data stored on the alliance nodes are not stored on the basic public chain nodes.

4.3.3 Network
Each alliance has an independent P2P network. It is necessary to store the boot node information on the public chain for addressing.

4.3.4 Contract
Each alliance corresponds to one contract.

5. Framework