WiiX.NET Technical White Paper

**Abstract:**

WiiX.NET is a new blockchain architecture focusing to further innovate horizontal structure of decentralized applications. WiiX.NET creates a master network node which serves as a platform where independent networks can be created. WiiX.NET software provides millions of transaction per second using grid computing technology, flexibility due to total customization by creating a platform where child network can attach to WiiX.NET, and security and total transparency by implementing open block centralization.

**Background:**

Blockchain technology was introduced with the launch of Bitcoin in 2008 by Satoshi Nakamoto. The blockchain technology is now popular due to decentralization which gave users some controls over the company. While blockchain is a groundbreaking technology which many entrepreneurs try to create decentralized applications for their ventures, there are some issues that blockchain technology have not been resolved yet. Some of the major issues are decentralization applications’ complete reliance on blockchain network and slow transaction speed due to the rise in popularity and users

**Grid Computing:**

WiiX.NET introduces a new way of consensus mechanism utilizing grid computing. When there is a transaction request, it will be sent to WiiX.NET whether the request was produced in the child network or main network. All the transactions are processed in WiiX.NET by miners. WiiX.NET will break down block data into smaller chunks and distribute to a group of miners to be mined simultaneously. Due to the logistic characteristic of performance increase, WiiX.NET will appoint a specific amount of miners per transaction. The reward for mining will be given in coin used in the main network.

There are other blockchain architects that use parallel computation. Parallel computation assigned set amount of work to each individual participants and the task is only complete when every participant involved in the task finishes their own job. The downside of parallel computation method is that the slowest person will be the bottleneck of the task and there is a change where anyone participant can refuse to work thus making the whole task ineffective. Another downside of the parallel computing is that there is a fundamental limit to how small a task can be broken down into. This characteristic reinforces the bottleneck problem since the slowest participant must be given a specific amount of data to be processed.

WiiX.NET addresses issues caused by parallel computing by utilizing grid computing method. In the case of grid computing, a group of participant works together to do a task. The main difference is that in parallel computing, participants are giving certain chunks to process opposed to in grid computing, a group of participants is working on the whole task together. In grid computing, all the participants come together and create a supercomputer that will solve a task.

**Independent Networks: (Get More Ideas)**

Every network that is attached to WiiX.NET has its’ own blockchain and all the consensus mechanism will be the responsibility of the main network. Due to individualized blockchain network, entrepreneurs can now have full control of their network and customize blockchain to fit their needs. By doing so, each network only contains data related to its field, resulting in smaller block information which will drastically reduce the search time.

While WiiX.NET promotes the individuality of each network, to ensure that all the networks under WiiX.NET can interact without a problem, there will be some set of standards that child network will have to follow. One obvious example would be the coin standard.

**Total Transparency Using Open Block Centralization:**

**Conclusion:**