

The Study on a Secure Financial Surveillance Blockchain System

Abstract

Supply chain finance means that banks or Loan institutions could provide financial services for the industries which are as the supply chain industries of a core enterprise. Block chain with Confidentiality, accountability, non-repudiation and reliability could be efficiently used in the supply chain finance. The transactions and personal can be stored in distributed ledgers, duplicating copies to each nodes of block chain to prevent data damage and crash. In addition, the sensitive data stored in block chain never afraid to be stolen and always keeps its privacy. In this proposal, we intend to propose a three-year plans to design mechanisms not only for help in credit checks but also for loan ledger management.

1st year: Credit check and management using blockchain helps banks easier lookup the transaction data of industries to reduce the cost of audit and investigation.

2nd year: loan management using blockchain to trace the loan repayment capacity.

3rd year: time slot of financial surveillance helps to protect users' personal data.

Keywords: Blockchain, Distributed Ledger, Peer-To-Peer Networks