

CLAIMS

1. A blockchain system configured to distribute simultaneously at least one public transaction and/or a restricted transaction, wherein the disposition includes a plurality of participating nodes (12) and a plurality of validator nodes (13) connected by a telecommunications network (14), a proponent participant node (12) is configured to send the contents of a t_x information transaction record to all the validator nodes (13) together with the identifier of a particular preconfigured privacy group, the transaction record of information t_x is encrypted by an encryption module of the validator node (13), the receiving validator node (13) is configured to cover the transaction of information t_x encrypted by means of a new transaction of information t_x' ; such that the t_x' information transaction is forced to maintain the same hash identifier as the t_x information transaction.
2. System according to Claim 1, wherein the receiving validator node (13) is configured to mark the encrypted data block with a restricted t_x information transaction,.
3. System according to Claim 2, wherein the receiving validator (13) is configured to assemble the encrypted and marked data block to the blockchain to distribute the blockchain to the participating nodes (12) in the particular privacy group of the restricted t_x information transaction, a privacy key is shared by the particular privacy group.
4. System according to Claim 3, wherein the receiving validator node (13) is configured to inform the participating nodes (12) in the particular privacy group of the restricted t_x information transaction that the restricted t_x information transaction is intended for the particular privacy group.
5. System according to Claim 4, wherein the receiving validator node (13) is configured to distribute to the participating nodes (12) the blockchain comprising the data block with encrypted and marked records, wherein the blockchain will consist of 0 to N transactions and at least one restricted t_x information transaction.
6. System according to Claim 3, wherein the receiving validator node (13) is configured to receive a request message for a restricted transaction execution from a participating node, the receiving validator node (13) determines the participating nodes (12) based on the members entered in a particular preconfigured privacy group.
7. System according to Claim 6, wherein the request message for a restricted transaction execution received by the receiving validator node (13), in addition to the transaction data proposed by the proposing participant node (12), comprises the metadata regarding the privacy context for which the restricted transaction is executed.
8. System according to Claim 3, wherein the participant node (12), having the encryption privacy key, is configured to read and execute the restricted tx information transaction.