

Quorum Private Transaction

Private Transaction



- Private transactions are facilitated through an API revealed to the Dapp that originates the transaction.
- It has a 256-bit hash in the data field.
- Not executed as per the Ethereum standard.
- EVM does not support encryption or decryption operations.

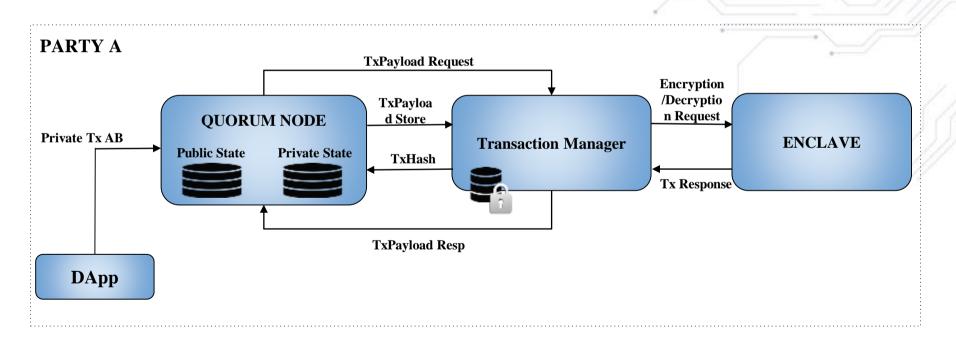
Components of Private Transaction



- Recipient: Authorized parties involved in the transaction, beneficiary of the assets.
- Transaction Payload: Contains the hash of the transaction data and the encrypted public key of the parties that are involved in the transactions.
- Signer List: Contains the sign of all the participants of a transaction.
- An optional data field: A 256-bit hash for a private transaction.
- PrivateFor List: A list of public keys that identify the parties involved in the transaction and identifies the transaction as private or not.

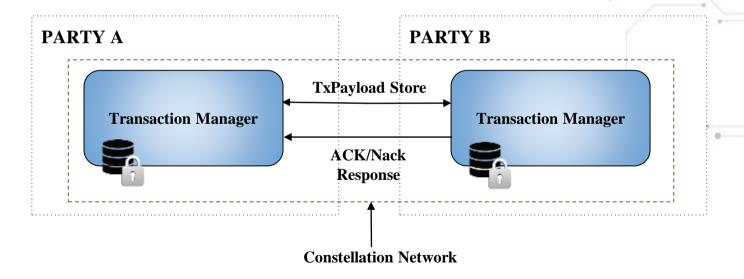


A. Transaction creation by the sender party.



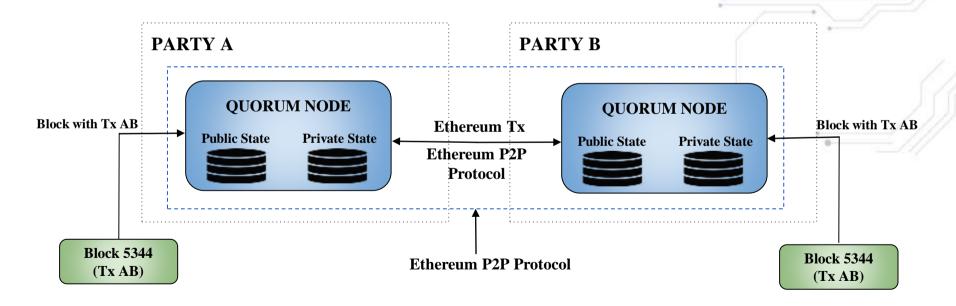


B. Transaction Manager of the sender party sends the encrypted transaction data to the Transaction Manager of the receiving party.



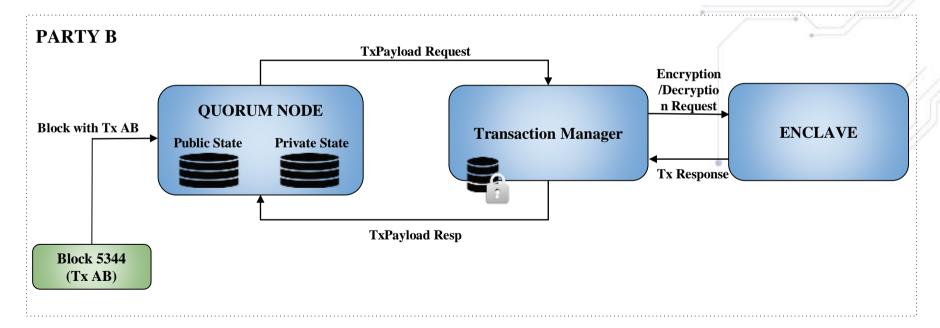


C. Transaction is propagated to the rest of the network using the standard Ethereum P2P Protocol.



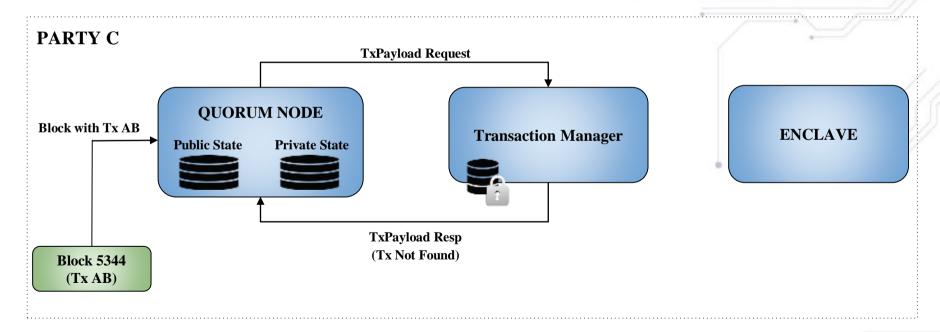


D. The Receiver Node makes a call to their local Transaction Manager to determine if they hold the transaction.





E. Other nodes make a call to their local Transaction Manager to determine if they hold the transaction.







THANK YOU!

Any questions?

You can mail us at hello@blockchain-council.org