



What is Quorum transaction?

Transaction

- Transactions are the proposals that update the ledger.
- Quorum transaction uses an extended model of the Ethereum Transaction Model.
- Ledger evolvement happens while applying transactions.
- Quorum Transaction is propagated to the rest of the network using the standard Ethereum P2P Protocol.

Types of transactions:

- **Private Transaction:** Transactions whose payload is only visible to the authorized network participants for that transaction.
- **Public Transaction:** Transactions whose payload is visible to all participants of the same network.

Public Transaction

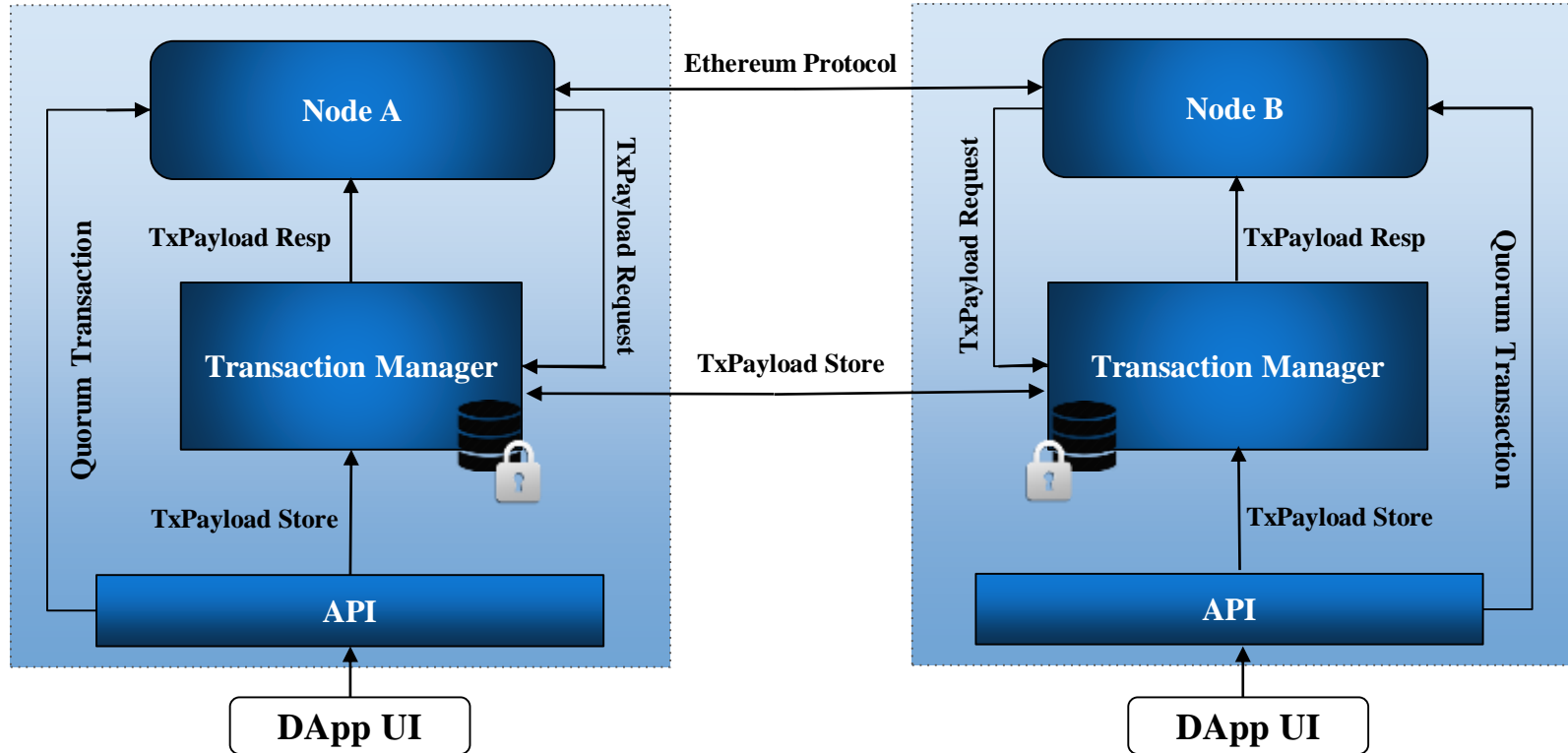
- Transaction Payload is visible to all participants of the same Quorum network.
- Created as per the standard Ethereum Transactions.
- Ethereum transaction supports three types of transactions:
 - **Ether assignment from one party to another.**
 - **Creation of a smart contract.**
 - **Transacting with a smart contract.**

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.

How a Transaction is Committed?



Transaction Manager



- Transaction Manager stores and enables access to encrypted transaction data, exchanges encrypted payloads with the transaction managers of other peers.
- It is responsible for transaction privacy and managing local data stores.
- It does not have access to any sensitive private keys.
- It utilizes the enclave for cryptographic functionality.
- Stateless in nature and it can be load balanced easily.



THANK YOU!

Any questions?

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