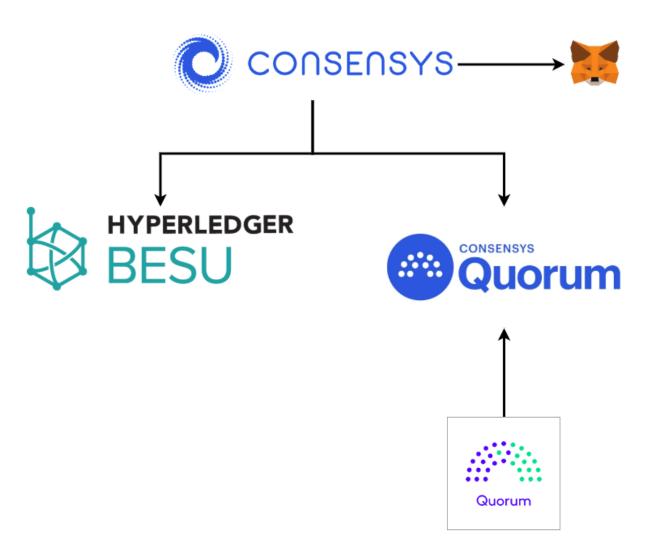
22/03/2021 status update

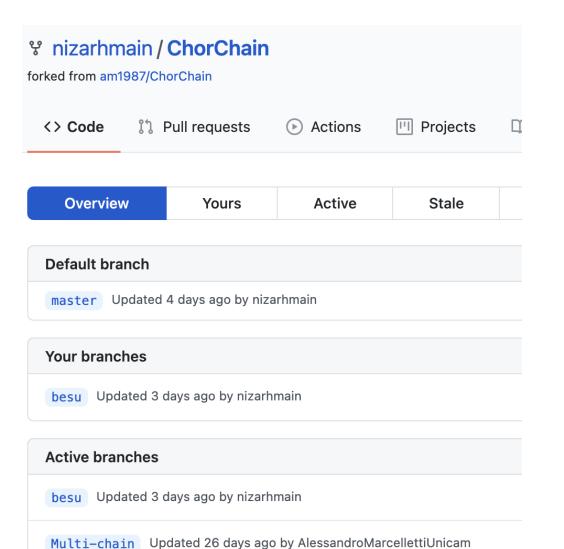


From BPMN to Permissioned blockchains: A model-driven approach.

Nizar Hmain

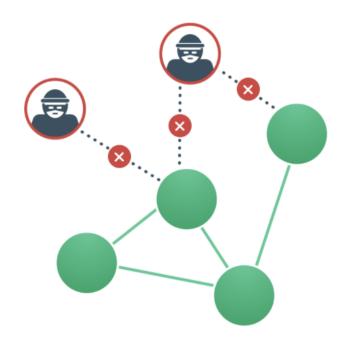
NEW YORK, NY, Aug. 25, 2020—ConsenSys, an industry-leading blockchain software company, today announced the acquisition of Quorum®, an enterprise-variant of the Ethereum blockchain developed by J.P. Morgan (NYSE: JPM). With the addition of Quorum, ConsenSys now offers a full range of products, services, and support for Quorum, accelerating the availability of features and capabilities—such as digital asset functionality and document management.



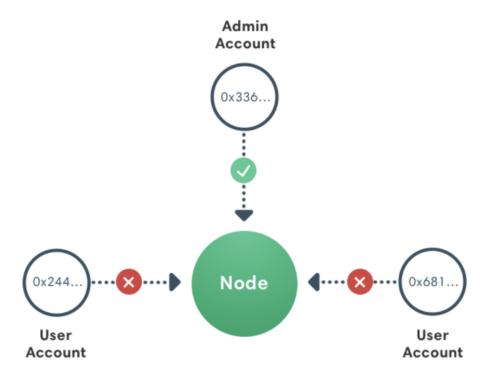


newTranslator Updated 14 months ago by AlessandroMarcellettiUnicam

Stale branches

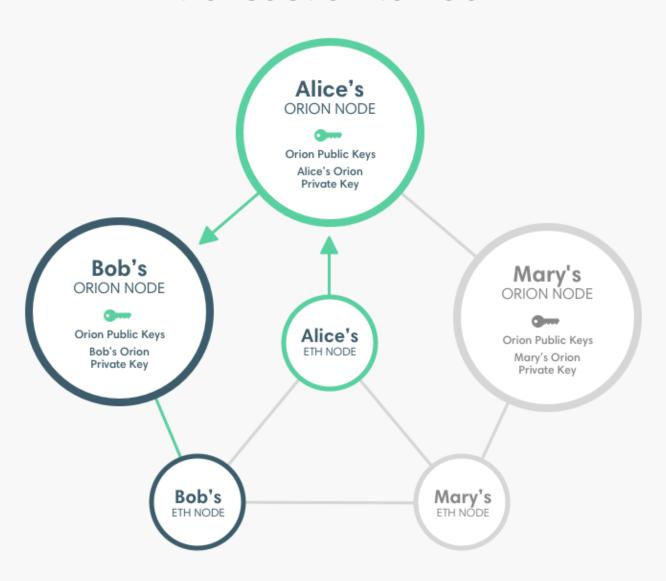


Node-level permissions are a useful system of governance to control connections to an individual node.

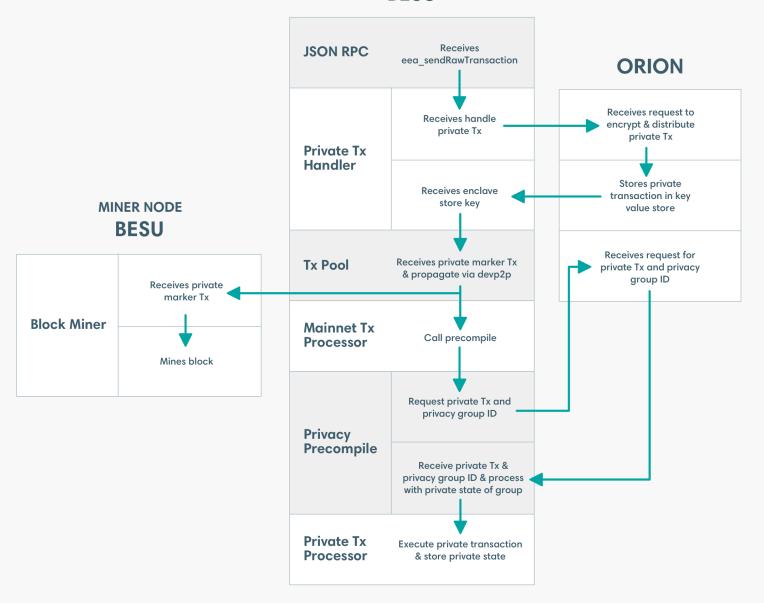


Using account permissions in Hyperledger Besu, a consortium blockchain can limit which accounts a node accepts transactions from, and which it rejects.

Alice sends a private transaction to Bob.



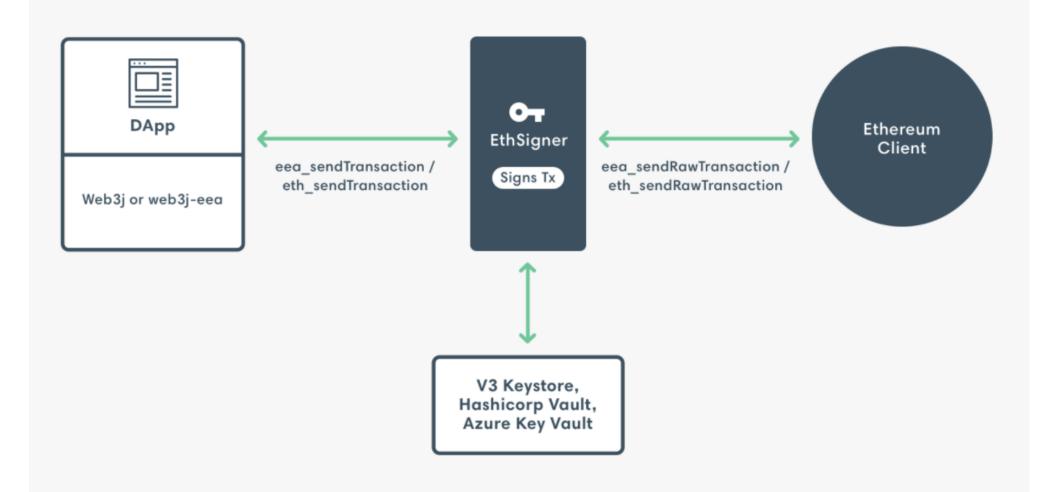
RECEIVING NODE BESU



EthSigner acts as a proxy service by forwarding requests to the Ethereum client. When EthSigner receives a transaction it generates a signature using the stored private key, and forwards the signed transaction to the Ethereum client.

Note: Besu does not implement eth_sendTransaction(), we must use eth_sendRawTransaction and sign it ourself or instead call localhost:8545 the default rpc node, we call the ethSigner node that signs it for us localhost:18545 with eth_sendTransaction

EthSigner Transaction



```
String rpc_endpoint = "http://localhost:8545";
String signer_proxy = "http://localhost:18545";
```

```
Web3j web3j = Web3j.build(new HttpService("http://localhost:7545"));
Admin adm = Admin.build(new HttpService("http://localhost:7545"));
Web3j web3j = Web3j.build(new HttpService(rpc_endpoint));
Web3j ethsigner = Web3j.build(new HttpService(signer_proxy));
Admin adm = Admin.build(new HttpService(rpc_endpoint));
```

```
//send sync
EthSendTransaction transactionResponse = web3j.ethSendTransaction(transaction1).send();
```

EthSendTransaction transactionResponse = ethsigner.ethSendTransaction(transaction1).send();

In order to send private transactions however, we need to use eea_sendRawTransaction instead of eth_sendTransaction which generates a privacy marker transaction and submits it to the tx pool, and returns the transaction hash of the privacy marker transaction. Essentially storing some information publically and some privately.

here comes the hart part. This method would not throw an exception when called and would just exit.



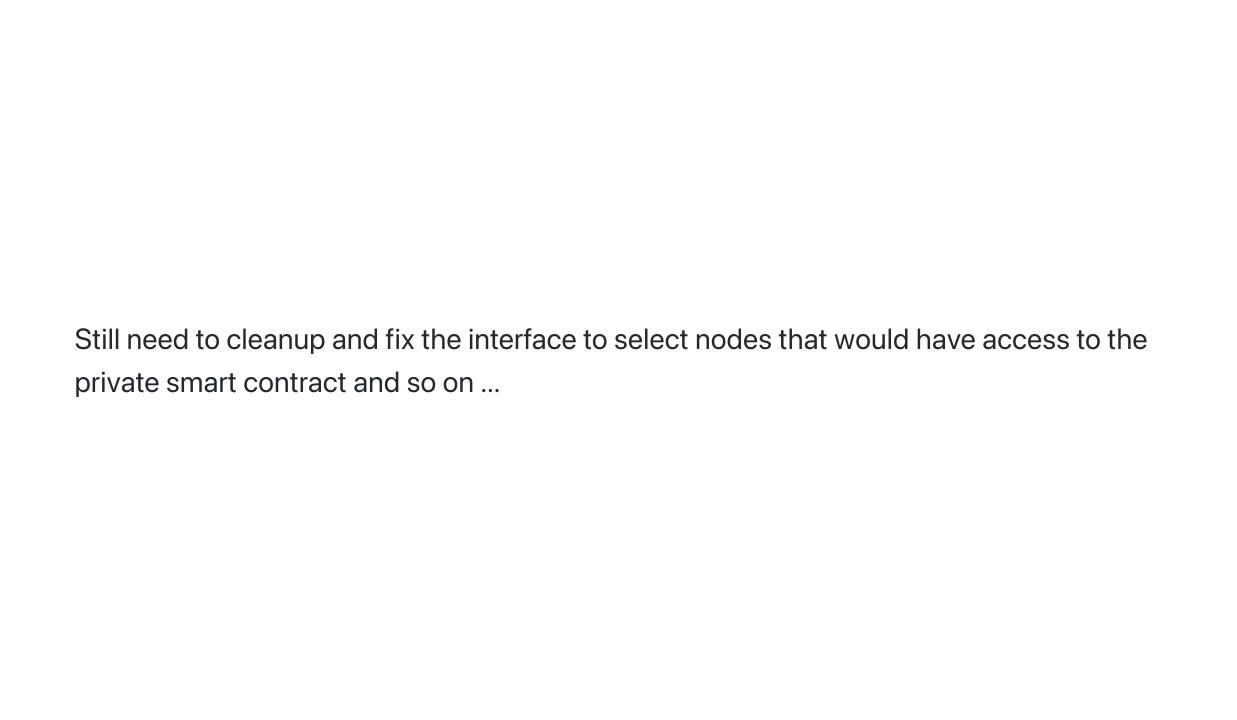
The web3j.eea package needs v4.8.4

The web3j.besu uses as well v4.8.4

The web3j.org uses as well v4.8.4

I realized that maybe the signing method in utils was wrong or just the wrong version updated web3j.utils web3j.crypto from version 4.1.1 to version 4.8.4 and it worked





- 1. Run ChorChain <
- 2. Besu public transactions <a>V
- 3. Besu private transactions (ni)
- 4. GoQuorum public tx X
- 5. GoQuorum private tx X
- 6. Interface and code cleanup X